

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Pueblo18dFP, Model: Longley-Rice
Start: 2018.05.02 08:50:23

Study created: 2018.05.02 08:50:23

Study build station data: LMS TV 2018-05-01

Proposal: K48CU D18 LD APP PUEBLO, CO
Facility ID: 22840
Station data: User record
Record ID: 586
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	K43CG	D17z	LD	APP	COLORADO SPRINGS, CO	BLANK0000052161	50.0 km
No	KZCO-LD	D17	LD	LIC	DENVER, CO	BLDTL20110706ABH	162.8
No	K17MI-D	D17	LD	LIC	EADS, ETC., CO	BLANK0000001778	137.6
No	KPJR-TV	D17	DT	CP	GREELEY, CO	BLANK0000026606	195.3
No	K17IG-D	D17	LD	LIC	HOEHNE, CO	BLDTT20090720AAJ	135.5
No	K18LN-D	D18	LD	CP	ASPEN, CO	BNPDTL20090825BXE	219.3
No	K18DR-D	D18	LD	LIC	CORTEZ, ETC, CO	BLDTT20090522ACJ	333.7
Yes	KPXC-TV	D18	DT	CP	DENVER, CO	BLANK0000027023	195.0
Yes	KRMA-TV	D18	DT	LIC	DENVER, CO	BLEDT20100312ABH	156.2
No	K18LL-D	D18	LD	LIC	EADS, ETC., CO	BLANK0000001779	137.6
No	KRMJ	D18	DT	LIC	GRAND JUNCTION, CO	BLEDT20100430ADO	371.3
Yes	K18JX-D	D18	LD	LIC	HOEHNE, CO	BLDTT20110613ACX	135.9
No	K18FO-D	D18	LD	LIC	IDALIA, CO	BLDTT20110120ABQ	235.1
No	K18IQ-D	D18	LD	CP	JACKS CABIN, CO	BPDTT20150123AHE	199.5
No	K18IQ-D	D18	LD	LIC	JACKS CABIN, CO	BLDTT20091125AFJ	199.5
No	K18KH-D	D18	LD	LIC	JULESBURG, CO	BLDTT20120430AAK	338.8
No	K18FN-D	D18	LD	LIC	PEETZ, CO	BLDTT20110928AKM	303.3
No	K18GM-D	D18	LD	LIC	PLEASANT VALLEY, CO	BLDTT20110613AAT	317.8

No	K18GD-D	D18	LD	LIC	REDSTONE, CO	BLDTT20091221ABB	250.0
No	KSWE-LD	D18	LD	APP	LIBERAL, KS	BLANK0000029689	356.6
No	KRTN-LD	D18	LD	APP	ALBUQUERQUE, NM	BLANK0000041900	388.2
No	K18HR-D	D18	LD	LIC	CONCHAS DAM, NM	BLDTT20111110AAN	345.1
No	K48AX-D	D18	LD	APP	EAGLE NEST, NM	BLANK0000030778	208.0
No	KCEI-LD	D18	LD	CP	TAOS, NM	BLANK0000029184	234.8
No	KCEI-LD	D18	LD	LIC	TAOS, NM	BLDTL20140310AAY	237.3
No	K18LC-D	D18	LD	LIC	TECOLOTE, NM	BLANK0000034438	333.5
No	KPTF-DT	D18	DT	LIC	FARWELL, TX	BLCDT20090612AEB	452.5
Yes	K19DY	D19	LD	CP	CANON CITY, CO	BDFCDTT20100111AEX	52.0
No	K19DY	N19	TX	LIC	CANON CITY, CO	BLTT20001027AAF	52.0
No	KSBS-CD	D19	DC	CP	DENVER, CO	BLANK0000034533	162.8
No	KTVD	D19	DT	LIC	DENVER, CO	BLCDT20090218ABY	162.8
No	K19KN-D	D19	LD	LIC	EADS, ETC., CO	BLANK0000001775	137.6
No	K19HC-D	D19	LD	LIC	HOEHNE, CO	BLDTT20090720AAK	135.5
No	K45KB-D	D19	LD	APP	LAKE GEORGE, CO	BLANK0000052545	82.3
No	K39ED-D	D19	LD	APP	ROCKY FORD, CO	BLANK0000052167	79.7

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: Full Service
Latitude: 38 21 44.80 N (NAD83)
Longitude: 104 33 35.60 W
Height AMSL: 1634.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	63.5 m	39.6 km
45.0	15.0	88.6	43.4

90.0	15.0	141.5	48.3
135.0	15.0	193.6	51.6
180.0	15.0	179.5	50.8
225.0	15.0	172.1	50.3
270.0	15.0	109.9	45.9
315.0	15.0	90.5	43.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 130 m

Distance to Canadian border: 1182.3 km

Distance to Mexican border: 752.7 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 59.6 degrees Distance: 596.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 343.2 degrees Distance: 204.1 km
ERP: 15.0 kW Field strength: 2.0 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 K43CG	Chan D17z	Svc LD	Status APP	City, State COLORADO SPRINGS, CO	File Number BLANK0000052161	Distance
Undesireds:	K48CU	D18	LD	APP	PUEBLO, CO		50.0 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	BLANK00000026606	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

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
				10009.3
				786,940
				0.10
				0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K48CU D18 LD APP	13.1	0	10.1
KHDT-LD D16 LD LIC	48.7	178	0.0
K16KA-D D16 LD LIC	20.1	4	19.1
K17KX-D D17 LD LIC	7.0	0	1.0
KZCO-LD D17 LD LIC	172.9	6,562	36.8
K17MI-D D17 LD LIC	5.0	28	1.0
KPJR-TV D17 DT CP	227.7	4,775	83.6
K17IG-D D17 LD LIC	9.0	0	6.0
KLBY D17 DT LIC	8.9	158	7.0
KWYM-LP D17z LD CP	37.8	75	1.0

Interference to BLANK0000027023 CP scenario 1

Desired:	Call KPXC-TV	Chan D18	Svc DT	Status CP	City, State DENVER, CO	File Number BLANK0000027023	Distance
Undesireds:	K48CU	D18	LD	APP	PUEBLO, CO		195.0 km
	KPJR-TV	D17	DT	CP	GREELEY, CO	BLANK00000026606	0.4
	KSBS-CD	D19	DC	CP	DENVER, CO	BLANK00000034533	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	22380.7	3,313,084	0.05 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
K48CU D18 LD APP	16.9	54		11.9	31	
KPJR-TV D17 DT CP	195.3	10,323		186.3	8,724	
KSBS-CD D19 DC CP	71.4	13,922		66.4	12,343	

Interference to BLANK0000027023 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXC-TV	D18	DT	CP	DENVER, CO	BLANK0000027023	
Undesireds:	K48CU	D18	LD	APP	PUEBLO, CO		195.0 km
	KPJR-TV	D17	DT	CP	GREELEY, CO	BLANK0000026606	0.4
	KSBS-CD	D19	DC	BL	DENVER, CO	DTVBL168750	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	22422.3	3,316,389	22410.4	3,316,358	0.05 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
K48CU D18 LD APP	16.9	54		11.9	31	
KPJR-TV D17 DT CP	195.3	10,323		188.3	9,332	
KSBS-CD D19 DC BL	38.7	10,037		36.7	9,069	

Interference to BLANK0000027023 CP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXC-TV	D18	DT	CP	DENVER, CO	BLANK0000027023	
Undesireds:	K48CU	D18	LD	APP	PUEBLO, CO		195.0 km
	KPJR-TV	D17	DT	BL	GREELEY, CO	DTVBL166510	0.4
	KSBS-CD	D19	DC	CP	DENVER, CO	BLANK0000034533	49.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
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23786.0	3,362,672	22654.3	3,335,781	22391.6	3,312,997	22379.7	3,312,966	0.05	0.00
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Undesired		Total IX	Unique IX, before	Unique IX, after
K48CU D18 LD APP	16.9	54		11.9 31
KPJR-TV D17 DT BL	196.3	10,441	191.3 8,862	187.3 8,842
KSBS-CD D19 DC CP	71.4	13,922	66.4 12,343	66.4 12,343

Interference to BLANK0000027023 CP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXC-TV	D18	DT	CP	DENVER, CO	BLANK0000027023	
Undesireds:	K48CU	D18	LD	APP	PUEBLO, CO		195.0 km
	KPJR-TV	D17	DT	BL	GREELEY, CO	DTVBL166510	0.4
	KSBS-CD	D19	DC	BL	DENVER, CO	DTVBL168750	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	22421.3 3,316,271	22409.4 3,316,240	0.05 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
K48CU D18 LD APP	16.9	54		11.9 31
KPJR-TV D17 DT BL	196.3	10,441	194.3 9,473	189.3 9,450
KSBS-CD D19 DC BL	38.7	10,037	36.7 9,069	36.7 9,069

Interference to BLEDT20100312ABH LIC scenario 1

**IX: 3.58% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KRMA-TV	D18	DT	LIC	DENVER, CO	BLEDT20100312ABH	
Undesireds:	K48CU	D18	LD	APP	PUEBLO, CO		156.2 km
	KRMJ	D18	DT	LIC	GRAND JUNCTION, CO	BLEDT20100430ADO	310.4
	KTVD	D19	DT	LIC	DENVER, CO	BLCDDT20090218ABY	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	27758.6 3,471,933	3.21 3.58

Undesired		Total IX	Unique IX, before		Unique IX, after	
K48CU D18 LD APP	922.3	128,831			919.3	128,831
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	245.7	13,850

Interference to BLDTT20110613ACX LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K18JX-D	D18	LD	LIC	HOEHNE, CO	BLDTT20110613ACX	
Undesireds:	K48CU	D18	LD	APP	PUEBLO, CO		135.9 km
	K17IG-D	D17	LD	LIC	HOEHNE, CO	BLDTT20090720AAJ	2.2
	K18LL-D	D18	LD	LIC	EADS, ETC., CO	BLANK0000001779	188.5
	K18IQ-D	D18	LD	CP	JACKS CABIN, CO	BPDTT20150123AHE	271.0
	K48AX-D	D18	LD	APP	EAGLE NEST, NM	BLANK0000030778	93.0
	KCEI-LD	D18	LD	CP	TAOS, NM	BLANK0000029184	129.4
	K18HL	N18z	TX	LIC	AMARILLO, TX	BLTTL20070730AKU	310.8
	K19HC-D	D19	LD	LIC	HOEHNE, CO	BLDTT20090720AAK	2.2
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	3876.4	13,958	3501.5	13,319	3101.7	11,962	0.45 0.07

Undesired		Total IX	Unique IX, before		Unique IX, after	
K48CU D18 LD APP	32.1	13			14.0	8
K17IG-D D17 LD LIC	393.7	356	320.6	147	308.6	147
K18LL-D D18 LD LIC	1.0	0	0.0	0	0.0	0
K48AX-D D18 LD APP	29.1	40	5.0	0	4.0	0
K19HC-D D19 LD LIC	51.0	1,162	1.0	993	1.0	993

Interference to BDFCDTT20100111AEX CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K19DY	D19	LD	CP	CANON CITY, CO	BDFCDTT20100111AEX	
Undesireds:	K48CU	D18	LD	APP	PUEBLO, CO		52.0 km

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
770.6	35,344	665.3	35,278	665.3	35,278	664.3	35,278	0.15 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
K48CU D18 LD APP	1.0	0		1.0 0

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K48CU	D18	LD	APP	PUEBLO, CO		
Undesireds:	K43CG	D17z	LD	APP	COLORADO SPRINGS, CO	BLANK00000052161	50.0 km
	KPXC-TV	D18	DT	CP	DENVER, CO	BLANK00000027023	195.0
	K18JX-D	D18	LD	LIC	HOEHNE, CO	BLDTT20110613ACX	135.9
	K18IQ-D	D18	LD	CP	JACKS CABIN, CO	BPDTT20150123AHE	199.5
	KCEI-LD	D18	LD	CP	TAOS, NM	BLANK00000029184	234.8
	K19DY	D19	LD	CP	CANON CITY, CO	BDFCDTT20100111AEX	52.0

Service area		Terrain-limited		IX-free		Percent IX
6760.8	202,360	6695.4	202,257	6674.2	202,164	0.32 0.05

Undesired		Total IX	Unique IX	Prct Unique IX
K43CG D17z LD APP	9.1	0	2.0 0	0.03 0.00
KPXC-TV D18 DT CP	14.1	0	7.1 0	0.11 0.00
K18JX-D D18 LD LIC	4.0	14	4.0 14	0.06 0.01
K19DY D19 LD CP	1.0	79	1.0 79	0.01 0.04

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K48CU	D18	LD	APP	PUEBLO, CO		
Undesireds:	K43CG	D17z	LD	APP	COLORADO SPRINGS, CO	BLANK00000052161	50.0 km
	KPXC-TV	D18	DT	CP	DENVER, CO	BLANK00000027023	195.0
	K18JX-D	D18	LD	LIC	HOEHNE, CO	BLDTT20110613ACX	135.9

K18IQ-D	D18	LD	CP	JACKS CABIN, CO	BPDTT20150123AHE	199.5
KCEI-LD	D18	LD	CP	TAOS, NM	BLANK0000029184	234.8

Service area		Terrain-limited		IX-free		Percent IX
6760.8	202,360	6695.4	202,257	6675.2	202,243	0.30 0.01

Undesired		Total IX		Unique IX		Prcnt Unique IX
K43CG D17z LD APP	9.1	0	2.0	0	0.03	0.00
KPXC-TV D18 DT CP	14.1	0	7.1	0	0.11	0.00
K18JX-D D18 LD LIC	4.0	14	4.0	14	0.06	0.01