tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: arriba19d8kwinceltiat90f, Model: Longley-Rice
Start: 2021.09.17 09:40:17

Study created: 2021.09.17 09:40:17

Study build station data: LMS TV 2021-09-17

    Proposal: K19MZ-D D19 LD LIC ARRIBA, CO
 Facility ID: 186847
Station data: User record
   Record ID: 1100
     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	K18MS-D	D18	LD	LIC	AKRON, CO	BLANK0000117623	112.7 km
No	KZCS-LD	D18z	LD	LIC	COLORADO SPRINGS, CO	BLANK0000116066	122.7
No	KPXC-TV	D18	DT	LIC	DENVER, CO	BLANK0000071556	130.6
No	K18LL-D	D18	LD	LIC	EADS, ETC., CO	BLANK0000001779	126.5
No	K18FO-D	D18	LD	LIC	IDALIA, CO	BLDTT20110120ABQ	111.1
No	K18FN-D	D18	LD	LIC	PEETZ, CO	BLDTT20110928AKM	173.1
No	K18NB-D	D18	LD	LIC	WRAY, CO	BLANK0000117480	146.5
No	K18NV-D	D18	LD	CP	CHEYENNE, WY	BLANK0000157100	224.2
No	K19FH-D	D19	LD	LIC	ASPEN, CO	BLDTT20121119AGZ	270.7
No	K19DY-D	D19	LD	LIC	CANON CITY, CO	BLANK0000138251	164.7
No	K19DY-D	N19	TX	LIC	CANON CITY, CO	BLTT20001027AAF	164.7
No	KRMA-TV	D19	LD	LIC	DENVER, CO	BLANK0000064177	182.5
No	KSBS-CD	D19	DC	LIC	DENVER, CO	BLANK0000068957	137.8
No	K19KN-D	D19	LD	LIC	EADS, ETC., CO	BLANK0000001775	126.5
No	K19HC-D	D19	LD	LIC	HOEHNE, CO	BLDTT20090720AAK	256.9
No	K19EG-D	D19	LD	LIC	HOLYOKE, CO	BLDTT20110613AAO	169.8
No	K19MN-D	D19	LD	LIC	LAKE GEORGE, CO	BLANK0000116870	126.1
No	K19HG-D	D19	LD	LIC	REDSTONE, CO	BLDTT20091221ABC	303.3

No	K39ED-D	D19	LD	LIC	ROCKY FORD, CO	BLANK0000107351	146.2
No	K19IX-D	D19	LD	LIC	ROMEO, CO	BLDTT20130107ABJ	346.0
No	K19LW-D	D19	LD	LIC	STERLING, CO	BLANK0000117467	146.1
No	K19ML-D	D19	LD	LIC	WRAY, CO	BLANK0000117481	146.5
Yes	KWKS	D19	DT	LIC	COLBY, KS	BLEDT20070601ATA	201.3
No	KAMR-TV	D19	DT	LIC	AMARILLO, TX	BLCDT20080519ACZ	477.8
No	DDKCHY-LP	D19+	LD	APP	CHEYENNE, WY	BLANK0000071845	221.6
No	K19FX-D	D19	LD	LIC	LARAMIE, WY	BLDTT20111129FFV	258.8
No	K20NI-D	D20	LD	LIC	AKRON, CO	BLANK0000117637	112.7
No	KDNF-LD	D20	LD	LIC	ARVADA, CO	BLANK0000065360	132.3
No	KXTU-LD	D20	LD	LIC	COLORADO SPRINGS, CO	BLANK0000124475	122.6
No	KRMT	D20	DT	LIC	DENVER, CO	BLANK0000154349	132.3
No	K20HM-D	D20	LD	LIC	IDALIA, CO	BLDTT20110613AAG	111.1
No	K42EA-D	D20	LD	LIC	LAMAR, CO	BLANK0000107354	176.5
No	K20FS-D	D20	LD	LIC	PEETZ, CO	BLDTT20110114AAR	173.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D19
       Mask: Stringent
   Latitude:  39 22 33.70 N (NAD83)
  Longitude: 103 41 42.70 W
Height AMSL: 1775.2 m
       HAAT: 0.0 m
   Peak ERP: 8.00 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 90.0 deg
Elev Pattrn: Generic
```

49.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.007 kW	114.9 m	10.4 km
45.0	1.71	75.1	30.7
90.0	8.00	71.1	37.7
135.0	1.61	67.3	29.2

180.0	0.006	116.7	10.3
225.0	0.061	70.0	13.9
270.0	0.020	9.3	7.0
315.0	0.043	94.3	14.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 77 m

Distance to Canadian border: 1069.6 km

Distance to Mexican border: 881.7 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 67.3 degrees Distance: 479.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 303.9 degrees Distance: 156.7 km
ERP: 0.031 kW Field strength: -17.8 dBu, 0.0 mV/m

No land mobile station failures found

Study cell size: 1.00 km
Profile point spacing: 0.10 km

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

Interference to BLEDT20070601ATA LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KWKS	D19	DT	LIC	COLBY, KS	BLEDT20070601ATA	
Undesireds:	K19MZ-D	D19	LD	LIC	ARRIBA, CO		201.3 km

	KWCH-DT	D19	DT	LIC	HUTCHINSON, KS	BLCDT20090929ACC	338.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
28662.5	39,716	28426.7	39,432	28358.8	39,421	28355.9	39,421	0.01	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K19MZ-D D19 LD LIC	3.0	0	3.0 0
KWCH-DT D19 DT LIC	67.8	11	67.8 11 67.8 11

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K19MZ-D	D19	LD	LIC	ARRIBA, CO		
Undesireds:	K19DY-D	D19	LD	LIC	CANON CITY, CO	BLANK0000138251	164.7 km
	KSBS-CD	D19	DC	LIC	DENVER, CO	BLANK0000068957	137.8
	K19KN-D	D19	LD	LIC	EADS, ETC., CO	BLANK0000001775	126.5
	KWKS	D19	DT	LIC	COLBY, KS	BLEDT20070601ATA	201.3

Service area		Terrain-limited		IX-free		Percent IX	
1565.8	758	1493.5	758	1407.3	746	5.77	1.58

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KSBS-CD D19 DC LIC	84.3	12	68.4	12	4.58	1.58
K19KN-D D19 LD LIC	4.0	0	0.0	0	0.00	0.00
KWKS D19 DT LIC	13.9	0	2.0	0	0.13	0.00