tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: FtR36d5kwCL1469at160T, Model: Longley-Rice
Start: 2021.07.23 18:13:28

Study created: 2021.07.23 18:13:28

Study build station data: LMS TV 2021-07-22 #3

    Proposal: K41NR-D D36 LD APP OGDEN, KS
 Facility ID: 186920
Station data: User record
   Record ID: 22
     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	KQKC-LP	N32z	TX	LIC	TOPEKA, KS	BLTTL20100128AAE	44.1 km
No	KMTW	D35	DT	LIC	HUTCHINSON, KS	BLCDT20030117AAE	144.5
No	K35KX-D	D35	LD	LIC	TOPEKA, KS	BLANK0000121576	87.9
No	KQML-LD	D35	LD	LIC	Kansas city, MO	BLANK0000124480	187.5
No	K35LG-D	D35	LD	CP	HASTINGS, NE	BNPDTL20100930ARA	223.3
No	KFFS-CD	D36	DC	LIC	FAYETTEVILLE, AR	BLANK0000055356	391.4
No	KFPX-TV	D36	DT	LIC	NEWTON, IA	BLANK0000063434	399.9
Yes	K36IO-D	D36	LD	LIC	MANHATTAN, KS	BLDTL20090908ADI	18.7
No	K36MZ-D	D36	LD	CP	RUSSELL, KS	BNPDTL20100514AHL	189.4
No	KBNS-CD	D36	DC	LIC	BRANSON, MO	BLDTL20100315ADB	402.5
No	K36LJ-D	D36	LD	CP	JEFFERSON CITY, MO	BLANK0000001283	380.1
No	K36II-D	D36	LD	LIC	JOPLIN, MO	BLDTL20101022ACG	301.2
No	KSHB-TV	D36	DT	LIC	KANSAS CITY, MO	BLANK0000153577	185.4
No	KSHB-TV	D36	DT	LIC	KANSAS CITY, MO	BLANK0000074649	185.4
No	K36NJ-D	D36	LD	LIC	MONETT, MO	BLANK0000058924	337.7
No	K36MO-D	D36	LD	CP	LINCOLN, NE	BNPDTL20100511ABR	209.1
No	K36QD-D	D36-	LD	LIC	NORFOLK, NE	BLANK0000121239	296.1
No	KDOR-TV	D36	DT	LIC	BARTLESVILLE, OK	BLANK0000067842	294.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D36
       Mask: Stringent
   Latitude:  39  3 52.00 N (NAD83)
  Longitude:  96 40 42.00 W
Height AMSL: 416.0 m
       HAAT: 0.0 m
   Peak ERP: 5.00 kW
    Antenna: KAT-CL-1469B (ID 1007708) 160.0 deg
Elev Pattrn: Generic
```

50.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	76.9 m	4.1 km
45.0	0.000	89.7	4.4
90.0	0.000	11.9	2.6
135.0	2.57	11.4	21.4
180.0	3.30	18.6	22.5
225.0	0.000	40.6	3.0
270.0	0.000	85.4	4.3
315.0	0.000	58.0	3.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 49 m

Distance to Canadian border: 1074.6 km

Distance to Mexican border: 1119.6 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 324.7 degrees Distance: 254.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 281.8 degrees Distance: 741.1 km

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 BLDTL20090908ADI LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K36IO-D	D36	LD	LIC	MANHATTAN, KS	BLDTL20090908ADI	
Undesireds:	K41NR-D	D36	LD	APP	OGDEN, KS		18.7 km
	KSHB-TV	D36	DT	LIC	KANSAS CITY, MO	BLANK0000153577	181.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1432.3	83,936	1374.6	82,156	1289.2	81,248	1152.8	80,815	10.58	0.53

Undesired	Total IX		Unique IX, before		Unique IX, after	
K41NR-D D36 LD APP	140.4	433			136.4	433
KSHB-TV D36 DT LIC	85.4	908	85.4	908	81.4	908

Interference to BLDTL20090908ADI LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K36IO-D	D36	LD	LIC	MANHATTAN, KS	BLDTL20090908ADI	
Undesireds:	K41NR-D	D36	LD	APP	OGDEN, KS		18.7 km
	KSHB-TV	D36	DT	LIC	KANSAS CITY, MO	BLANK0000074649	181.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1432.3	83,936	1374.6	82,156	1289.2	81,248	1152.8	80,815	10.58	0.53

Undesired	Total IX		Unique IX, before		Unique IX, after	
K41NR-D D36 LD APP	140.4	433			136.4	433
KSHB-TV D36 DT LIC	85.4	908	85.4	908	81.4	908

Interference to proposal scenario 1
41.14% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K41NR-D	D36	LD	APP	OGDEN, KS		
Undesireds:	K36IO-D	D36	LD	LIC	MANHATTAN, KS	BLDTL20090908ADI	18.7 km
	KSHB-TV	D36	DT	LIC	KANSAS CITY, MO	BLANK0000153577	185.4

Service area		Terrain-limited		IX-free		Percent IX	
396.5	466	393.5	457	226.1	269	42.55	41.14

Undesired	Total IX		Unique IX		Prcnt Unique IX	
K36IO-D D36 LD LIC	167.4	188	166.4	188	42.29	41.14
KSHB-TV D36 DT LIC	1.0	0	0.0	0	0.00	0.00

Interference to proposal scenario 2
41.14% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K41NR-D	D36	LD	APP	OGDEN, KS		
Undesireds:	K36IO-D	D36	LD	LIC	MANHATTAN, KS	BLDTL20090908ADI	18.7 km
	KSHB-TV	D36	DT	LIC	KANSAS CITY, MO	BLANK0000074649	185.4

Service area		Terrain-limited		IX-free		Percent IX	
396.5	466	393.5	457	226.1	269	42.55	41.14

Undesired	Total IX		Unique IX		Prcnt Unique IX	

K36IO-D D36 LD LIC	167.4	188	166.4	188	42.29	41.14
KSHB-TV D36 DT LIC	1.0	0	0.0	0	0.00	0.00