tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KLHO-LD Ch 31 License, Model: Longley-Rice
Start: 2018.04.13 15:59:03

Study created: 2018.04.13 15:59:03

Study build station data: LMS TV 2018-04-12

    Proposal: KLHO-LD D31 LD LIC OKLAHOMA CITY, OK
 File number: KLHO-LD Ch 31 License
 Facility ID: 188771
Station data: User record
   Record ID: 1748
     Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K30AE-D	D30	LD	LIC	ALVA, OK	BLDTT20091229ACW	185.8 km
No	K30MS-D	D30	LD	CP	ARDMORE, OK	BNPDTL20100930ARR	135.0
No	K30LI-D	D30	LD	CP	CLINTON, OK	BNPDTL20100406ACH	130.2
No	K30MR-D	D30	LD	CP	LAWTON, OK	BNPDTL20100930ARF	134.0
No	K46LF-D	D30	LD	APP	TULSA, OK	BLANK0000048993	158.4
No	KWBM	D31	DT	APP	HARRISON, AR	BLANK0000036086	422.2
No	KWBM	D31	DT	LIC	HARRISON, AR	BLCDT20091201ASC	422.2
No	KWNL-CD	D31	DC	LIC	WINSLOW, AR	BLANK0000004282	307.6
No	KWNL-CD	D31	DC	CP	WINSLOW, AR	BLANK0000035862	307.6
No	KDCU-DT	D31	DT	LIC	DERBY, KS	BLCDT20090821AAM	270.2
No	K46JL-D	D31	LD	APP	ALTUS, OK	BLANK0000029969	190.7
No	KSWX-LP	N31-	TX	LIC	DUNCAN, OK	BLTTL20080818AAY	107.7
No	K31JW-D	D31	LD	LIC	ELK CITY, OK	BLDTT20100510ATH	164.0
Yes	KOET	D31	DT	LIC	EUFAULA, OK	BLEDT20060601BJT	193.6
No	K31MK-D	D31	LD	CP	LAWTON, OK	BNPDTL20101004ACZ	134.0
Yes	KOHC-CD	D31	DC	CP	OKLAHOMA CITY, OK	BLANK0000034836	1.2
No	K31JQ-D	D31	LD	LIC	WOODWARD, ETC., OK	BLDTT20101007ABO	210.7
No	KEYU	D31	DT	LIC	BORGER, TX	BLCDT20130815AAW	395.4
No	K31CD-D	D31	LD	LIC	CANADIAN, TX	BLDTT20100520ADA	272.0
No	K31GL-D	D31	LD	LIC	DE SOTO, TX	BLDTL20081110AJA	312.3
No	K31MS-D	D31	LD	CP	JOLLY, TX	BNPDTL20100510AGK	185.3
No	KAZD	D31	DT	CP	LAKE DALLAS, TX	BLANK0000034935	312.5
No	K31MU-D	D31	LD	CP	LINGLEVILLE-CROWLEY, TX	BLANK0000001158	314.9
No	K31MU-D	D31	LD	LIC	LINGLEVILLE-CROWLEY, TX	BLDTL20150120AIJ	306.7
No	KLBK-TV	D31	DT	CP	LUBBOCK, TX	BLANK0000049097	453.0
No	K31HC-D	D31	LD	LIC	QUANAH, TX	BLDTT20110118AAO	244.3
No	K31LM-D	D31	LD	CP	RANGER, TX	BNPDTL20100304AAZ	349.3
No	K31LQ-D	D31	LD	LIC	SHERMAN, TX	BLANK0000013869	160.3
No	K31BZ-D	D31	LD	LIC	WELLINGTON, TX	BLDTT20100813BHH	257.3
No	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK0000025823	202.3
No	K32KA-D	D32	LD	CP	CLINTON, OK	BNPDTL20100406ACI	130.2
No	K45JZ-D	D32	LD	APP	ELK CITY, OK	BLANK0000029966	164.0
No	K19IR-D	D32	LD	APP	ENID, OK	BLANK0000052042	125.2
No	K32KG-D	D32	LD	CP	LAWTON, OK	BNPDTL20100210ABM	134.0
No	K32IW-D	D32	LD	CP	TULSA, OK	BDCCDTT20081211AAD	153.4
No	K32KT-D	D32	LD	LIC	WICHITA FALLS, TX	BLANK0000001482	190.7

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
KTLV 1220 L DA2 D MIDWEST CITY, OK BL
KTLV 1220 L DA2 N MIDWEST CITY, OK BL
KTOK 1000 L DA2 D OKLAHOMA CITY, OK BMML20120713AEL
KTOK 1000 L DA2 N OKLAHOMA CITY, OK BMML20120713AEL

Record parameters as studied:

    Channel: D31
       Mask: Stringent
   Latitude: 35 22 10.00 N (NAD83)
  Longitude: 97 27 37.00 W
Height AMSL: 499.0 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: ANT-ACS16E (ID 17730) 130.0 deg
Elev Pattrn: Generic
  Elec Tilt: 1.00

50.4 dBu contour:
Azimuth	ERP	HAAT	Distance
0.0 deg	4.37 kW	128.6 m	39.7 km

```
 45.0       6.34      121.8     41.1
 90.0       12.2      130.0     45.0
135.0       14.9      147.5     47.2
180.0       11.1      139.9     45.2
225.0       5.40      135.8     41.2
270.0       4.37      112.9     38.6
315.0       4.70      124.3     39.8

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

Distance to Canadian border: 1440.5 km

Distance to Mexican border: 723.3 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 352.5 degrees   Distance: 623.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 310.0 degrees   Distance: 862.2 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 BLANK0000034836 CP scenario 2
**IX: 93.62% interference caused

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     KOHC-CD   D31   DC  CP      OKLAHOMA CITY, OK         BLANK0000034836

Undesireds:  KLHO-LD   D31   LD  LIC     OKLAHOMA CITY, OK         KLHO-LD Ch 31 License     1.2 km
             KWNL-CD   D31   DC  LIC     WINSLOW, AR               BLANK0000004282         306.9
             KDCU-DT   D31   DT  LIC     DERBY, KS                 BLCDT20090821AAM        271.0
             KOET      D31   DT  LIC     EUFAULA, OK               BLEDT20060601BJT        192.6
             KAZD      D31   DT  BL      LAKE DALLAS, TX           DTVBL17433              311.7

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
  4893.1   1,107,048    4817.5   1,101,911    4641.5   1,095,393     658.1      69,876    85.82    93.62

Undesired                          Total IX     Unique IX, before      Unique IX, after
KLHO-LD D31 LD LIC       4146.4   1,031,926                          3983.3   1,025,517
KDCU-DT D31 DT LIC         16.9       1,246       2.0          19       0.0           0
KOET D31 DT LIC           174.1       6,499     159.2       5,272      11.0         109
KAZD D31 DT BL              1.0           0       0.0           0       0.0           0

-----------------------------------------------------------------------------------------------------
Interference to proposal scenario 1
93.90% interference received

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     KLHO-LD   D31   LD  LIC     OKLAHOMA CITY, OK         KLHO-LD Ch 31 License

Undesireds:  KWNL-CD   D31   DC  LIC     WINSLOW, AR               BLANK0000004282         307.6 km
             KDCU-DT   D31   DT  LIC     DERBY, KS                 BLCDT20090821AAM        270.2
             KOET      D31   DT  LIC     EUFAULA, OK               BLEDT20060601BJT        193.6
             K31MK-D   D31   LD  CP      LAWTON, OK                BNPDTL20101004ACZ       134.0
             KOHC-CD   D31   DC  CP      OKLAHOMA CITY, OK         BLANK0000034836           1.2
             KAZD      D31   DT  CP      LAKE DALLAS, TX           BLANK0000034935         312.5
             K31MU-D   D31   LD  CP      LINGLEVILLE-CROWLEY, TX   BLANK0000001158         314.9

        Service area       Terrain-limited              IX-free        Percent IX
  5621.7   1,129,452    5578.9   1,128,718     773.7      68,885    86.13    93.90

Undesired                          Total IX            Unique IX   Prcnt Unique IX
KDCU-DT D31 DT LIC           7.9         152       1.0           0     0.02     0.00
KOET D31 DT LIC            103.5       3,015      14.9         448     0.27     0.04
K31MK-D D31 LD CP            3.0           9       0.0           0     0.00     0.00
KOHC-CD D31 DC CP         4788.3   1,059,385    4698.7   1,056,818    84.22    93.63
KAZD D31 DT CP               3.0           0       0.0           0     0.00     0.00
```