tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000010621, Model: Longley-Rice
Start: 2019.06.10 18:09:44

Study created: 2019.06.10 18:09:44

Study build station data: LMS TV 2019-05-14

    Proposal: KKRM-LD D11 LD CP CHICO, CA
 File number: BLANK0000010621
 Facility ID: 167898
Station data: User record
   Record ID: 175
     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	K08NH	N8z	TX	LIC	OROVILLE, CA	BLTVL20020618AAT	56.2 km
No	KMCA-LD	D10	LD	CP	REDDING, CA	BLANK0000064266	93.3
No	KMCA-LD	D10	LD	LIC	REDDING, CA	BLDVL20120619ACW	90.8
Yes	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	191.8
No	K10QX-D	D10	LD	CP	RENO, NV	BMPDVL20120806AAJ	172.4
No	KTVL	D10	DT	APP	MEDFORD, OR	BLANK0000035804	250.6
Yes	KEET	D11	DT	LIC	EUREKA, CA	BLANK0000005864	209.6
Yes	KNSO	D11	DT	LIC	MERCED, CA	BLCDT20100202ABE	377.3
Yes	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	356.4
No	K11WP-D	D11	LD	LIC	San Francisco, CA	BLANK0000062809	237.8
No	K11WP-D	D11	LD	CP	San Francisco, CA	BLANK0000068487	248.3
Yes	KAAP-LD	D11	LD	LIC	SANTA CRUZ, CA	BLANK0000072197	316.6
Yes	KTVN	D11	DT	LIC	RENO, NV	BLANK0000063879	172.1
No	KOAB-TV	D11	DT	LIC	BEND, OR	BLEDT20060823AAP	459.0
No	K11RM	N11	TX	LIC	SILVER LAKE, ETC., OR	BLTTV19830418IN	363.1
No	K11GH-D	D11	LD	LIC	TRI CITIES, ETC, OR	BLDTV20120621ABL	352.4
No	K12JJ-D	D12	LD	LIC	BENBOW, ETC., CA	BLDTV20120209ACS	168.5
No	KRJR-LP	D12z	LD	APP	SACRAMENTO, CA	BLANK0000051701	147.0
No	KGO-TV	D12	DT	CP	SAN FRANCISCO, CA	BLANK0000033605	253.0
No	KNTV	D12	DT	LIC	SAN JOSE, CA	BLCDT20050923AHA	260.2
No	KRNV-DT	D12	DT	CP	RENO, NV	BLANK0000034623	172.1
No	K12RB-D	D12	LD	CP	RENO, NV	BPDVL20100518AAL	178.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D11
       Mask: Full Service
   Latitude: 39 57 29.00 N (NAD83)
  Longitude: 121 42 53.00 W
Height AMSL: 1108.0 m
       HAAT: 0.0 m
   Peak ERP: 3.00 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.00 kW	106.8 m	46.8 km
45.0	3.00	59.4	37.7
90.0	3.00	76.5	41.4
135.0	3.00	303.7	62.2
180.0	3.00	565.0	78.1
225.0	3.00	683.9	82.0
270.0	3.00	637.3	80.5
315.0	3.00	440.9	70.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 359 m

Distance to Canadian border: 930.2 km

Distance to Mexican border: 902.9 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 180.8 degrees   Distance: 248.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 83.8 degrees   Distance: 1398.6 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 BLCDT20120201AAM LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	191.8 km
	KVIE	D9	DT	APP	SACRAMENTO, CA	BLANK0000035686	3.5
	KERO-TV	D10	DT	LIC	BAKERSFIELD, CA	BLCDT20100929AEF	403.4
	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	164.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
47357.6	10,765,017	41070.4	7,480,593	40670.8	7,460,240	40668.8	7,460,240	0.00	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	2.0	0		2.0	0
KVIE D9 DT APP	115.3	6,735	115.3	6,735	115.3	6,735
KERO-TV D10 DT LIC	284.4	13,618	284.4	13,618	284.4	13,618

Interference to BLCDT20120201AAM LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	191.8 km
	KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLEDT20100913ABV	3.5
	KERO-TV	D10	DT	LIC	BAKERSFIELD, CA	BLCDT20100929AEF	403.4
	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	164.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
47357.6	10,765,017	41070.4	7,480,593	40677.8	7,460,261	40675.8	7,460,261	0.00	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	2.0	0		2.0	0
KVIE D9 DT LIC	108.3	6,714	108.3	6,714	108.3	6,714
KERO-TV D10 DT LIC	284.4	13,618	284.4	13,618	284.4	13,618

Interference to BLANK0000005864 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KEET	D11	DT	LIC	EUREKA, CA	BLANK0000005864	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	209.6 km
	KTVL	D10	DT	LIC	MEDFORD, OR	BLCDT20090612AGJ	183.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
45785.7	177,290	39302.3	159,445	39294.3	159,445	39178.6	159,437	0.29	0.01

Undesired	Total IX	Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	119.7	8		115.7	8
KTVL D10 DT LIC	8.0	0	8.0	0	4.0	0

Interference to BLANK0000005864 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KEET	D11	DT	LIC	EUREKA, CA	BLANK0000005864	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	209.6 km
	KTVL	D10	DT	APP	MEDFORD, OR	BLANK0000035804	183.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
45785.7	177,290	39302.3	159,445	39280.2	159,445	39164.6	159,437	0.29	0.01

Undesired	Total IX	Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	119.7	8		115.7	8
KTVL D10 DT APP	22.1	0	22.1	0	18.1	0

Interference to BLCDT20100202ABE LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNSO	D11	DT	LIC	MERCED, CA	BLCDT20100202ABE	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	377.3 km
	KERO-TV	D10	DT	LIC	BAKERSFIELD, CA	BLCDT20100929AEF	194.9

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             KXTV      D10   DT  LIC     SACRAMENTO, CA           BLCDT20120201AAM        223.7
             KTTV      D11   DT  LIC     LOS ANGELES, CA          BLCDT20100709AFD        339.7
             KCBA      D11   DT  CP      SALINAS, CA              BLANK0000028196         187.4
             KTVN      D11   DT  LIC     RENO, NV                 BLANK0000063879         252.5

        Service area       Terrain-limited       IX-free, before       IX-free, after    Percent New IX
 47193.2   2,092,425   42603.1   2,047,541   41721.9   2,033,219   41719.9   2,033,219     0.00     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
KKRM-LD D11 LD CP          9.1         214                             2.0           0
KERO-TV D10 DT LIC         4.0       3,764       0.0           0       0.0           0
KXTV D10 DT LIC            1.0           0       0.0           0       0.0           0
KTTV D11 DT LIC           46.4       9,240      40.3       5,476      40.3       5,476
KCBA D11 DT CP           794.4       4,967     735.8       4,751     732.7       4,751
KTVN D11 DT LIC           98.1         331      42.5         115      41.5         115

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Interference to BLCDT20100202ABE LIC scenario 2

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     KNSO      D11   DT  LIC     MERCED, CA               BLCDT20100202ABE

Undesireds:  KKRM-LD   D11   LD  CP      CHICO, CA                BLANK0000010621         377.3 km
             KERO-TV   D10   DT  LIC     BAKERSFIELD, CA          BLCDT20100929AEF        194.9
             KXTV      D10   DT  LIC     SACRAMENTO, CA           BLCDT20120201AAM        223.7
             KTTV      D11   DT  LIC     LOS ANGELES, CA          BLCDT20100709AFD        339.7
             KCBA      D11   DT  BL      SALINAS, CA              DTVBL14867              187.4
             KTVN      D11   DT  LIC     RENO, NV                 BLANK0000063879         252.5

        Service area       Terrain-limited       IX-free, before       IX-free, after    Percent New IX
 47193.2   2,092,425   42603.1   2,047,541   41723.0   2,033,223   41720.9   2,033,223     0.00     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
KKRM-LD D11 LD CP          9.1         214                             2.0           0
KERO-TV D10 DT LIC         4.0       3,764       0.0           0       0.0           0
KXTV D10 DT LIC            1.0           0       0.0           0       0.0           0
KTTV D11 DT LIC           46.4       9,240      40.3       5,476      40.3       5,476
KCBA D11 DT BL           792.3       4,963     734.7       4,747     731.7       4,747
KTVN D11 DT LIC           98.1         331      43.5         115      42.5         115

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Interference to BLANK0000028196 CP scenario 1

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     KCBA      D11   DT  CP      SALINAS, CA              BLANK0000028196

Undesireds:  KKRM-LD   D11   LD  CP      CHICO, CA                BLANK0000010621         356.4 km
             KXTV      D10   DT  LIC     SACRAMENTO, CA           BLCDT20120201AAM        164.9
             KNSO      D11   DT  LIC     MERCED, CA               BLCDT20100202ABE        187.4
             KTVN      D11   DT  LIC     RENO, NV                 BLANK0000063879         317.8
             KGO-TV    D12   DT  CP      SAN FRANCISCO, CA        BLANK0000033605         139.3

        Service area       Terrain-limited       IX-free, before       IX-free, after    Percent New IX
 32365.1   3,080,757   24563.0   2,334,651   22932.5   1,336,614   22931.5   1,336,614     0.00     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
KKRM-LD D11 LD CP         15.2         565                             1.0           0
KXTV D10 DT LIC            9.2           0       1.0           0       1.0           0
KNSO D11 DT LIC         1009.1      66,920     794.5       3,807     794.5       3,807
KTVN D11 DT LIC          115.0       6,406       8.0           0       8.0           0
KGO-TV D12 DT CP         729.1     992,077     609.4     931,114     608.3     931,114

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Interference to BLANK0000028196 CP scenario 2

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     KCBA      D11   DT  CP      SALINAS, CA              BLANK0000028196

Undesireds:  KKRM-LD   D11   LD  CP      CHICO, CA                BLANK0000010621         356.4 km
             KXTV      D10   DT  LIC     SACRAMENTO, CA           BLCDT20120201AAM        164.9
             KNSO      D11   DT  LIC     MERCED, CA               BLCDT20100202ABE        187.4
             KTVN      D11   DT  LIC     RENO, NV                 BLANK0000063879         317.8
             KGO-TV    D12   DT  BL      SAN FRANCISCO, CA        DTVBL34470              139.3

        Service area       Terrain-limited       IX-free, before       IX-free, after    Percent New IX
 32365.1   3,080,757   24563.0   2,334,651   22881.8   1,326,638   22880.8   1,326,638     0.00     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
KKRM-LD D11 LD CP         15.2         565                             1.0           0
KXTV D10 DT LIC            9.2           0       1.0           0       1.0           0
KNSO D11 DT LIC         1009.1      66,920     791.5       3,779     791.5       3,779
KTVN D11 DT LIC          115.0       6,406       7.0           0       7.0           0
KGO-TV D12 DT BL         783.8   1,002,081     660.0     941,090     659.0     941,090

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Interference to BLANK0000072197 LIC scenario 1
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	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAP-LD	D11	LD	LIC	SANTA CRUZ, CA	BLANK0000072197	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	316.6 km
	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	129.0
	KNSO	D11	DT	LIC	MERCED, CA	BLCDT20100202ABE	213.8
	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	49.7
	K11WP-D	D11	LD	LIC	San Francisco, CA	BLANK0000062809	112.1
	KTVN	D11	DT	LIC	RENO, NV	BLANK0000063879	298.8
	KGO-TV	D12	DT	CP	SAN FRANCISCO, CA	BLANK0000033605	89.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
20677.0	4,274,955	15821.1	3,782,810	8271.7	2,751,984	8267.6	2,751,984	0.05	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	18.3	0			4.1	0
KXTV D10 DT LIC	1.0	0	0.0	0	0.0	0
KNSO D11 DT LIC	361.4	10,547	196.2	3,812	191.2	3,812
KCBA D11 DT CP	7335.9	1,014,711	6623.0	997,379	6622.0	997,379
K11WP-D D11 LD LIC	617.5	3,883	2.0	804	2.0	804
KTVN D11 DT LIC	10.1	0	4.1	0	3.0	0
KGO-TV D12 DT CP	21.3	21,500	9.1	11,499	9.1	11,499

Interference to BLANK0000072197 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAP-LD	D11	LD	LIC	SANTA CRUZ, CA	BLANK0000072197	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	316.6 km
	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	129.0
	KNSO	D11	DT	LIC	MERCED, CA	BLCDT20100202ABE	213.8
	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	49.7
	KTVN	D11	DT	LIC	RENO, NV	BLANK0000063879	298.8
	KGO-TV	D12	DT	CP	SAN FRANCISCO, CA	BLANK0000033605	89.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
20677.0	4,274,955	15821.1	3,782,810	8273.7	2,752,788	8269.6	2,752,788	0.05	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	18.3	0			4.1	0
KXTV D10 DT LIC	1.0	0	0.0	0	0.0	0
KNSO D11 DT LIC	361.4	10,547	196.2	3,812	191.2	3,812
KCBA D11 DT CP	7335.9	1,014,711	7162.7	998,061	7161.7	998,061
KTVN D11 DT LIC	10.1	0	4.1	0	3.0	0
KGO-TV D12 DT CP	21.3	21,500	9.1	11,499	9.1	11,499

Interference to BLANK0000063879 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVN	D11	DT	LIC	RENO, NV	BLANK0000063879	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	172.1 km
	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	184.2
	KNSO	D11	DT	LIC	MERCED, CA	BLCDT20100202ABE	252.5
	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	317.8
	KRNV-DT	D12	DT	CP	RENO, NV	BLANK0000034623	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
50085.9	998,326	41224.7	834,901	40985.4	819,122	40694.7	817,141	0.71	0.24

Undesired	Total IX		Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	425.8	14,372			290.7	1,981
KXTV D10 DT LIC	92.0	10,570	44.0	3,191	17.0	1,328
KNSO D11 DT LIC	87.1	10,161	30.0	4,651	11.0	17
KCBA D11 DT CP	143.3	3,086	92.2	442	51.2	229

Interference to BLANK0000063879 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVN	D11	DT	LIC	RENO, NV	BLANK0000063879	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	172.1 km
	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	184.2
	KNSO	D11	DT	LIC	MERCED, CA	BLCDT20100202ABE	252.5
	KCBA	D11	DT	BL	SALINAS, CA	DTVBL14867	317.8
	KRNV-DT	D12	DT	CP	RENO, NV	BLANK0000034623	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
50085.9	998,326	41224.7	834,901	40986.4	819,122	40695.7	817,141	0.71	0.24

Undesired	Total IX		Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	425.8	14,372			290.7	1,981

KXTV D10 DT LIC	92.0	10,570	44.0	3,191	17.0	1,328
KNSO D11 DT LIC	87.1	10,161	30.0	4,651	11.0	17
KCBA D11 DT BL	142.3	3,086	91.2	442	50.2	229

Interference to BLANK0000063879 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVN	D11	DT	LIC	RENO, NV	BLANK0000063879	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	172.1 km
	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	184.2
	KNSO	D11	DT	LIC	MERCED, CA	BLCDT20100202ABE	252.5
	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	317.8
	KRNV-DT	D12	DT	BL	RENO, NV	DTVBL60307	0.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
50085.9	998,326	41224.7	834,901	40982.4	819,122	40691.7	817,141	0.71	0.24

Undesired	Total IX		Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	425.8	14,372			290.7	1,981
KXTV D10 DT LIC	92.0	10,570	44.0	3,191	17.0	1,328
KNSO D11 DT LIC	87.1	10,161	30.0	4,651	11.0	17
KCBA D11 DT CP	143.3	3,086	92.2	442	51.2	229
KRNV-DT D12 DT BL	3.0	0	3.0	0	3.0	0

Interference to BLANK0000063879 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVN	D11	DT	LIC	RENO, NV	BLANK0000063879	
Undesireds:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	172.1 km
	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	184.2
	KNSO	D11	DT	LIC	MERCED, CA	BLCDT20100202ABE	252.5
	KCBA	D11	DT	BL	SALINAS, CA	DTVBL14867	317.8
	KRNV-DT	D12	DT	BL	RENO, NV	DTVBL60307	0.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
50085.9	998,326	41224.7	834,901	40983.4	819,122	40692.7	817,141	0.71	0.24

Undesired	Total IX		Unique IX, before		Unique IX, after	
KKRM-LD D11 LD CP	425.8	14,372			290.7	1,981
KXTV D10 DT LIC	92.0	10,570	44.0	3,191	17.0	1,328
KNSO D11 DT LIC	87.1	10,161	30.0	4,651	11.0	17
KCBA D11 DT BL	142.3	3,086	91.2	442	50.2	229
KRNV-DT D12 DT BL	3.0	0	3.0	0	3.0	0

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KKRM-LD	D11	LD	CP	CHICO, CA	BLANK0000010621	
Undesireds:	KMCA-LD	D10	LD	CP	REDDING, CA	BLANK0000064266	93.3 km
	KEET	D11	DT	LIC	EUREKA, CA	BLANK0000005864	209.6
	K11WP-D	D11	LD	LIC	San Francisco, CA	BLANK0000062809	237.8
	KAAP-LD	D11	LD	LIC	SANTA CRUZ, CA	BLANK0000072197	316.6

Service area		Terrain-limited		IX-free		Percent IX	
13271.9	329,265	12006.4	310,634	12002.3	310,634	0.03	0.00

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KEET D11 DT LIC	2.0	0	1.0	0	0.01	0.00
KAAP-LD D11 LD LIC	3.0	0	2.0	0	0.02	0.00