

1 tvstudy v2.2.5 (4uoc83)  
2 Database: 127.0.0.1, Study: BLANK0000052106 #377, Model: Longley-Rice  
3 Start: 2019.05.29 13:35:48  
4

5 Study created: 2019.05.29 13:35:48  
6

7 Study build station data: LMS TV 2019-05-14  
8

9 Proposal: KDTS-LD D14 LD APP SAN FRANCISCO, CA  
10 File number: BLANK0000052106  
11 Facility ID: 167032  
12 Station data: User record  
13 Record ID: 173  
14 Country: U.S.  
15

16 Build options:  
17 Protect pre-transition records not on baseline channel  
18

19 Stations potentially affected by proposal:  
20

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KVIQ-LD	D14	LD	LIC	Eureka, ca, CA	BLANK0000034113	355.0 km
No	KJEO-LD	D14	LD	CP	FRESNO, CA	BLANK0000053775	277.2
No	K14HX-D	D14	LD	LIC	LAKEHEAD, CA	BLDTT20080826AAP	351.1
No	K14PC-D	D14	LD	CP	MONTEREY, CA	BNPDTL20100728AEU	137.3
Yes	K46LG-D	D14	LD	CP	MONTEREY, CA	BLANK0000054315	139.3
Yes	KSAO-LD	D14	LD	CP	SACRAMENTO, CA	BLANK0000053702	154.4
Yes	KMMC-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000053901	7.8
Yes	KQTA-LD	D14	LD	APP	San Francisco, CA	BLANK0000054596	0.0
No	K48LA-D	D14	LD	CP	SOUTH LAKE TAHOE, CA	BLANK0000054405	279.2
Yes	KMMW-LD	D14	LD	CP	STOCKTON, CA	BLANK0000054670	156.7
No	K50LN-D	D14	LD	APP	SILVER SPRINGS, NV	BLANK0000071884	334.9
No	KNRC-LD	D14	LD	LIC	SPARKS, NV	BLDTL20100910AEI	307.1
No	K14JY-D	D14	LD	LIC	WALKER LAKE, NV	BLDTT20111128DZW	352.7
No	KBSV	D15	DT	APP	CERES, CA	BLANK0000072220	132.8
Yes	KBSV	D15	DT	LIC	CERES, CA	BLEDT20090213AAZ	98.9
No	K15FJ	N15+	TX	LIC	LAKEPORT, CA	BLTTL20011115ACR	139.9
No	K15CU-D	D15	LD	LIC	SALINAS, CA	BLDTL20140730AEK	139.3
No	KYUB-LD	D15	LD	CP	Yuba City, CA	BLANK0000054788	170.3

40  
41 No non-directional AM stations found within 0.8 km

42  
43 No directional AM stations found within 3.2 km  
44

45 Record parameters as studied:

46 Channel: D14  
47 Mask: Full Service  
48 Latitude: 37 45 19.00 N (NAD83)  
49 Longitude: 122 27 10.00 W  
50 Height AMSL: 498.2 m  
51 HAAT: 0.0 m  
52 Peak ERP: 15.0 kW  
53 Antenna: Omnidirectional  
54 Elev Pattn: Generic  
55  
56

57 48.7 dBu contour:  
58 Azimuth ERP HAAT Distance  
59 0.0 deg 15.0 kW 472.0 m 66.8 km  
60 45.0 15.0 491.3 67.4  
61 90.0 15.0 492.0 67.4  
62 135.0 15.0 481.0 67.1  
63 180.0 15.0 380.7 62.4  
64 225.0 15.0 491.2 67.4  
65 270.0 15.0 492.1 67.4  
66 315.0 15.0 490.6 67.4  
67

68 Database HAAT does not agree with computed HAAT  
69 Database HAAT: 0 m Computed HAAT: 474 m  
70

71 Distance to Canadian border: 1167.0 km  
72

73 Distance to Mexican border: 731.2 km  
74

75 Conditions at FCC monitoring station: Livermore CA  
76 Bearing: 92.9 degrees Distance: 61.5 km  
77

78 Proposal is not within the West Virginia quiet zone area  
79

80 Conditions at Table Mountain receiving zone:  
81 Bearing: 74.6 degrees Distance: 1507.5 km  
82

83 No land mobile station failures found  
84

85  
86 Study cell size: 1.00 km

```

87 Profile point spacing: 1.00 km
88
89 Maximum new IX to full-service and Class A: 0.50%
90 Maximum new IX to LPTV: 2.00%
91
92
93 -----
94 Interference to BLANK0000054315 CP scenario 1
95
96      Call      Chan  Svc Status  City, State      File Number      Distance
97 Desired:    K46LG-D  D14   LD  CP      MONTEREY, CA      BLANK0000054315
98
99 Undesireds:  KDTS-LD  D14   LD  APP      SAN FRANCISCO, CA  BLANK0000052106   139.3 km
100             KJEO-LD  D14   LD  CP      FRESNO, CA         BLANK0000053775   187.3
101             K14PC-D  D14   LD  CP      MONTEREY, CA       BNPDTL20100728AEU  44.7
102             KMMC-LD  D14   LD  APP      SAN FRANCISCO, CA  BLANK0000053901   132.3
103             KQTA-LD  D14   LD  APP      San Francisco, CA  BLANK0000054596   139.3
104             KMMW-LD  D14   LD  CP      STOCKTON, CA       BLANK0000054670   166.3
105             KBSV     D15   DT  APP      CERES, CA          BLANK0000072220   104.4
106             K15CU-D  D15   LD  LIC      SALINAS, CA        BLDTL20140730AEK   0.0
107
108      Service area      Terrain-limited      IX-free, before      IX-free, after      Percent New IX
109      4528.7      414,682      3794.4      379,768      2812.0      181,323      2812.0      181,323      0.00      0.00
110
111 Undesired      Total IX      Unique IX, before      Unique IX, after
112 KDTS-LD D14 LD APP      6.0      1,761      0.0      0
113 KJEO-LD D14 LD CP      1.0      0      1.0      0
114 K14PC-D D14 LD CP      412.4      13,415      376.2      12,196      376.2      12,196
115 KMMC-LD D14 LD APP      21.1      3,526      8.0      0
116 KQTA-LD D14 LD APP      6.0      1,761      0.0      0
117 KMMW-LD D14 LD CP      6.0      0      3.0      0
118 K15CU-D D15 LD LIC      592.1      186,249      542.9      180,946      542.9      180,946
119
120 -----
121 Interference to BLANK0000053702 CP scenario 1
122
123      Call      Chan  Svc Status  City, State      File Number      Distance
124 Desired:    KSAO-LD  D14   LD  CP      SACRAMENTO, CA      BLANK0000053702
125
126 Undesireds:  KDTS-LD  D14   LD  APP      SAN FRANCISCO, CA  BLANK0000052106   154.4 km
127             KMMC-LD  D14   LD  APP      SAN FRANCISCO, CA  BLANK0000053901   158.3
128             KQTA-LD  D14   LD  APP      San Francisco, CA  BLANK0000054596   154.4
129             KMMW-LD  D14   LD  CP      STOCKTON, CA       BLANK0000054670   67.2
130             KBSV     D15   DT  APP      CERES, CA          BLANK0000072220   118.3
131             K15CX-D  D15   LD  LIC      OROVILLE, CA      BLANK0000069527   99.7
132             KNPB     D15   LD  APP      RENO, NV           BDRTEDT20090825BIO 124.8
133
134      Service area      Terrain-limited      IX-free, before      IX-free, after      Percent New IX
135      4381.2      1,815,860      4312.4      1,806,443      3645.2      1,772,132      3645.2      1,772,132      0.00      0.00
136
137 Undesired      Total IX      Unique IX, before      Unique IX, after
138 KDTS-LD D14 LD APP      29.9      9,339      0.0      0
139 KMMC-LD D14 LD APP      11.0      3,537      2.0      135
140 KQTA-LD D14 LD APP      29.9      9,339      19.9      5,700
141 KMMW-LD D14 LD CP      639.2      26,239      634.2      24,750
142
143 -----
144 Interference to BLANK0000053901 APP scenario 1
145
146      Call      Chan  Svc Status  City, State      File Number      Distance
147 Desired:    KMMC-LD  D14   LD  APP      SAN FRANCISCO, CA      BLANK0000053901
148
149 Undesireds:  KDTS-LD  D14   LD  APP      SAN FRANCISCO, CA  BLANK0000052106   7.8 km
150             KJEO-LD  D14   LD  CP      FRESNO, CA         BLANK0000053775   273.8
151             K14PC-D  D14   LD  CP      MONTEREY, CA       BNPDTL20100728AEU 129.6
152             K46LG-D  D14   LD  CP      MONTEREY, CA       BLANK0000054315   132.3
153             KSAO-LD  D14   LD  CP      SACRAMENTO, CA     BLANK0000053702   158.3
154             KQTA-LD  D14   LD  APP      San Francisco, CA  BLANK0000054596   7.8
155             KMMW-LD  D14   LD  CP      STOCKTON, CA       BLANK0000054670   157.5
156             KBSV     D15   DT  APP      CERES, CA          BLANK0000072220   130.5
157
158      Service area      Terrain-limited      IX-free, before      IX-free, after      Percent New IX
159      12611.8      5,512,424      10286.0      4,828,621      2431.4      1,101,368      2431.4      1,101,368      0.00      0.00
160
161 Undesired      Total IX      Unique IX, before      Unique IX, after
162 KDTS-LD D14 LD APP      7830.4      3,721,697      0.0      0
163 KJEO-LD D14 LD CP      6.1      1,114      1.0      1,114
164 K14PC-D D14 LD CP      4.0      41      1.0      0
165 K46LG-D D14 LD CP      1.0      0      0.0      0
166 KSAO-LD D14 LD CP      61.6      12,008      11.1      3,773
167 KQTA-LD D14 LD APP      7830.4      3,721,697      7759.8      3,701,620
168 KMMW-LD D14 LD CP      62.6      19,202      3.0      652
169
170 -----
171 Interference to BLANK0000054596 APP scenario 1
172 **MX: 42.14% interference caused

```

173		Call	Chan	Svc	Status	City, State	File Number	Distance
174								
175	Desired:	KQTA-LD	D14	LD	APP	San Francisco, CA	BLANK0000054596	
176								
177	Undesireds:	KDTS-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000052106	0.0 km
178		KJEO-LD	D14	LD	CP	FRESNO, CA	BLANK0000053775	277.2
179		K14PC-D	D14	LD	CP	MONTEREY, CA	BNPDTL20100728AEU	137.3
180		K46LG-D	D14	LD	CP	MONTEREY, CA	BLANK0000054315	139.3
181		KSAO-LD	D14	LD	CP	SACRAMENTO, CA	BLANK0000053702	154.4
182		KMMC-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000053901	7.8
183		KMMW-LD	D14	LD	CP	STOCKTON, CA	BLANK0000054670	156.7
184		KBSV	D15	DT	APP	CERES, CA	BLANK0000072220	132.8
185								
186		Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
187	13943.7	5,494,892	11316.0		4,685,295	2817.9 857,665	1931.7 496,264	31.45 42.14
188								
189	Undesired				Total IX	Unique IX, before	Unique IX, after	
190	KDTS-LD D14 LD APP		9384.3		4,189,031		886.1 361,401	
191	KJEO-LD D14 LD CP		8.1		2	0.0 0	0.0 0	
192	K14PC-D D14 LD CP		1.0		0	0.0 0	0.0 0	
193	K46LG-D D14 LD CP		1.0		0	0.0 0	0.0 0	
194	KSAO-LD D14 LD CP		144.3		10,570	5.1 123	0.0 0	
195	KMMC-LD D14 LD APP		8481.0		3,826,637	8300.4 3,799,819	0.0 0	
196	KMMW-LD D14 LD CP		167.5		25,526	2.0 49	0.0 0	
197								
198								
199	Interference to BLANK0000054670 CP scenario 1							
200								
201		Call	Chan	Svc	Status	City, State	File Number	Distance
202	Desired:	KMMW-LD	D14	LD	CP	STOCKTON, CA	BLANK0000054670	
203								
204	Undesireds:	KDTS-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000052106	156.7 km
205		KJEO-LD	D14	LD	CP	FRESNO, CA	BLANK0000053775	162.7
206		K46LG-D	D14	LD	CP	MONTEREY, CA	BLANK0000054315	166.3
207		KSAO-LD	D14	LD	CP	SACRAMENTO, CA	BLANK0000053702	67.2
208		KMMC-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000053901	157.5
209		KQTA-LD	D14	LD	APP	San Francisco, CA	BLANK0000054596	156.7
210		KBSV	D15	DT	APP	CERES, CA	BLANK0000072220	62.4
211								
212		Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
213	8618.8	1,109,593	8287.6		1,100,559	7878.6 1,083,740	7878.6 1,083,740	0.00 0.00
214								
215	Undesired				Total IX	Unique IX, before	Unique IX, after	
216	KDTS-LD D14 LD APP		5.0		91		0.0 0	
217	KJEO-LD D14 LD CP		4.1		0	4.1 0	4.1 0	
218	K46LG-D D14 LD CP		3.0		46	0.0 0	0.0 0	
219	KSAO-LD D14 LD CP		393.8		16,698	392.8 16,698	392.8 16,698	
220	KMMC-LD D14 LD APP		9.1		121	5.1 18	5.1 18	
221	KQTA-LD D14 LD APP		5.0		91	2.0 0	0.0 0	
222								
223								
224	Interference to BLEDT20090213AAZ LIC scenario 1							
225								
226		Call	Chan	Svc	Status	City, State	File Number	Distance
227	Desired:	KBSV	D15	DT	LIC	CERES, CA	BLEDT20090213AAZ	
228								
229	Undesireds:	KDTS-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000052106	98.9 km
230		KEZT-CD	D14	DC	BL	SACRAMENTO, CA	DTVBL52891	118.0
231		KKPX-TV	D14	DT	BL	SAN JOSE, CA	DTVBL22644	95.6
232		K08MM-D	D15	DC	LIC	BAKERSFIELD, CA	BLANK0000001629	329.0
233		KSBY	D15	DT	LIC	SAN LUIS OBISPO, CA	BLCDDT20081118AEW	247.1
234								
235		Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
236	9519.8	1,356,966	8427.8		1,264,764	8373.5 1,264,647	8373.5 1,264,647	0.00 0.00
237								
238	Undesired				Total IX	Unique IX, before	Unique IX, after	
239	KDTS-LD D14 LD APP		2.0		0		0.0 0	
240	KEZT-CD D14 DC BL		1.0		0	1.0 0	1.0 0	
241	KKPX-TV D14 DT BL		9.1		12	8.1 12	7.1 12	
242	KSBY D15 DT LIC		45.2		105	44.1 105	43.1 105	
243								
244								
245	Interference to BLEDT20090213AAZ LIC scenario 2							
246								
247		Call	Chan	Svc	Status	City, State	File Number	Distance
248	Desired:	KBSV	D15	DT	LIC	CERES, CA	BLEDT20090213AAZ	
249								
250	Undesireds:	KDTS-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000052106	98.9 km
251		KEZT-CD	D14	DC	BL	SACRAMENTO, CA	DTVBL52891	118.0
252		KKPX-TV	D14	DT	BL	SAN JOSE, CA	DTVBL22644	95.6
253		K08MM-D	D15	DC	APP	BAKERSFIELD, CA	BLANK0000035875	329.0
254		KSBY	D15	DT	LIC	SAN LUIS OBISPO, CA	BLCDDT20081118AEW	247.1
255								
256		Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
257	9519.8	1,356,966	8427.8		1,264,764	8373.5 1,264,647	8373.5 1,264,647	0.00 0.00
258								

259	Undesired			Total IX	Unique IX, before	Unique IX, after
260	KDTS-LD D14 LD APP	2.0		0		0.0
261	KEZT-CD D14 DC BL	1.0		0	1.0	0
262	KKPX-TV D14 DT BL	9.1		12	8.1	12
263	K08MM-D D15 DC APP	1.0		0	0.0	0
264	KSBY D15 DT LIC	45.2		105	43.1	105

265

266 -----

267 Interference to proposal scenario 1

268 \*\*MX: 89.41% interference received

270	Call	Chan	Svc	Status	City, State	File Number	Distance
271	Desired: KDTS-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000052106	
272							
273	Undesireds: KJEO-LD	D14	LD	CP	FRESNO, CA	BLANK0000053775	277.2 km
274	K14PC-D	D14	LD	CP	MONTEREY, CA	BNPDTL20100728AEU	137.3
275	K46LG-D	D14	LD	CP	MONTEREY, CA	BLANK0000054315	139.3
276	KSAO-LD	D14	LD	CP	SACRAMENTO, CA	BLANK0000053702	154.4
277	KMMC-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000053901	7.8
278	KQTA-LD	D14	LD	APP	San Francisco, CA	BLANK0000054596	0.0
279	KMMW-LD	D14	LD	CP	STOCKTON, CA	BLANK0000054670	156.7
280	KBSV	D15	DT	APP	CERES, CA	BLANK0000072220	132.8

282	Service area	Terrain-limited	IX-free	Percent IX
283	13943.7	5,494,892	11316.0	4,685,295
284			1931.7	496,264
285			82.93	89.41

285	Undesired			Total IX	Unique IX	Prcnt Unique IX
286	KJEO-LD D14 LD CP	8.1		2	0.0	0
287	K14PC-D D14 LD CP	1.0		0	0.0	0
288	K46LG-D D14 LD CP	1.0		0	0.0	0
289	KSAO-LD D14 LD CP	144.3		10,570	0.0	0
290	KMMC-LD D14 LD APP	8481.0		3,826,637	0.0	0
291	KQTA-LD D14 LD APP	9384.3		4,189,031	886.1	361,401
292	KMMW-LD D14 LD CP	167.5		25,526	0.0	0
293						