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1 tvstudy v2.2.5 (4uoc83)
2 Database: 127.0.0.1, Study: BLANK0000054596 #359, Model: Longley-Rice
3 Start: 2019.05.14 21:56:27
4
5 Study created: 2019.05.14 21:56:26
6
7 Study build station data: LMS TV 2019-05-14
8
9 Proposal: KQTA-LD D14 LD APP San Francisco, CA
10 File number: BLANK0000054596
11 Facility ID: 182960
12 Station data: User record
13 Record ID: 153
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
21 IX Call Chan Svc Status City, State File Number Distance
22 No KVIQ-LD D14 LD LIC Eureka, ca, CA BLANK0000034113 355.0 km
23 No KJEO-LD D14 LD CP FRESNO, CA BLANK0000053775 277.2
24 No K14HX-D D14 LD LIC LAKEHEAD, CA BLDTT20080826AAP 351.1
25 No K14PC-D D14 LD CP MONTEREY, CA BNPDTL20100728AEU 137.3
26 Yes K46LG-D D14 LD CP MONTEREY, CA BLANK0000054315 139.3
27 Yes KSAO-LD D14 LD CP SACRAMENTO, CA BLANK0000053702 154.4
28 Yes KMMC-LD D14 LD APP SAN FRANCISCO, CA BLANK0000053901 7.8
29 Yes KDTS-LD D14 LD APP SAN FRANCISCO, CA BLANK0000052106 3.6
30 No K48LA-D D14 LD CP SOUTH LAKE TAHOE, CA BLANK0000054405 279.2
31 Yes KMMW-LD D14 LD CP STOCKTON, CA BLANK0000054670 156.7
32 No K50LN-D D14 LD APP SILVER SPRINGS, NV BLANK0000071884 334.9
33 No KNRC-LD D14 LD LIC SPARKS, NV BLDTL20100910AEI 307.1
34 No K14JY-D D14 LD LIC WALKER LAKE, NV BLDTT20111128DZW 352.7
35 No KBSV D15 DT APP CERES, CA BLANK0000072220 132.8
36 Yes KBSV D15 DT LIC CERES, CA BLEDT20090213AAZ 98.9
37 No K15FJ N15+ TX LIC LAKEPORT, CA BLTTL20011115ACR 139.9
38 No K15CU-D D15 LD LIC SALINAS, CA BLDTL20140730AEK 139.3
39 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
47 Channel: D14
48 Mask: Full Service
49 Latitude: 37 45 19.00 N (NAD83)
50 Longitude: 122 27 10.00 W
51 Height AMSL: 498.2 m
52 HAAT: 474.8 m
53 Peak ERP: 15.0 kW
54 Antenna: Omnidirectional
55 Elev Pattn: Generic
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: 475 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 Conditionsat Table Mountain receiving zone:

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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

	Call	Chan	Svc	Status	City, State	File Number	Distance
96	Desired:	K46LG-D	D14	LD	CP	MONTEREY, CA	BLANK0000054315
97							
98							
99	Undesireds:	KQTA-LD	D14	LD	APP	San Francisco, CA	BLANK0000054596 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		KDTS-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000052106 136.2
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

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
108	4528.7	414,682	3794.4	379,768	2810.0	181,323	2810.0	181,323	0.00 0.00

	Undesired			Total IX		Unique IX, before		Unique IX, after
111	KQTA-LD D14 LD APP	6.0		1,761		0.0		0
112	KJEO-LD D14 LD CP	1.0		0	1.0	0		0
113	K14PC-D D14 LD CP	412.4		13,415	376.2	12,196	376.2	12,196
114	KMMC-LD D14 LD APP	21.1		3,526	8.0	0	7.0	0
115	KDTS-LD D14 LD APP	15.0		2,039	2.0	0	2.0	0
116	KMMW-LD D14 LD CP	6.0		0	3.0	0	3.0	0
117	K15CU-D D15 LD LIC	592.1		186,249	537.9	180,742	537.9	180,742

118
119
120 -----
121 Interference to BLANK0000053702 CP scenario 1
122

	Call	Chan	Svc	Status	City, State	File Number	Distance
123	Desired:	KSAO-LD	D14	LD	CP	SACRAMENTO, CA	BLANK0000053702
124							
125							
126	Undesireds:	KQTA-LD	D14	LD	APP	San Francisco, CA	BLANK0000054596 154.4 km
127		KMMC-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000053901 158.3
128		KDTS-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000052106 152.8
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

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
134	4381.2	1,815,860	4312.4	1,806,443	3665.2	1,777,832	3645.2	1,772,132	0.54 0.32

	Undesired			Total IX		Unique IX, before		Unique IX, after
137	KQTA-LD D14 LD APP	29.9		9,339		19.9		5,700
138	KMMC-LD D14 LD APP	11.0		3,537	4.0	1,259	0.0	0
139	KDTS-LD D14 LD APP	5.0		1,200	0.0	0	0.0	0
140	KMMW-LD D14 LD CP	639.2		26,239	636.2	25,074	634.2	24,750

141
142
143 -----
144 Interference to BLANK0000053901 APP scenario 1
145

146 **MX: 24.93% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
147	Desired:	KMMC-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000053901
148							
149							
150	Undesireds:	KQTA-LD	D14	LD	APP	San Francisco, CA	BLANK0000054596 7.8 km
151		KJEO-LD	D14	LD	CP	FRESNO, CA	BLANK0000053775 273.8
152		K14PC-D	D14	LD	CP	MONTEREY, CA	BNPDTL20100728AEU 129.6
153		K46LG-D	D14	LD	CP	MONTEREY, CA	BLANK0000054315 132.3
154		KSAO-LD	D14	LD	CP	SACRAMENTO, CA	BLANK0000053702 158.3
155		KDTS-LD	D14	LD	APP	SAN FRANCISCO, CA	BLANK0000052106 6.5
156		KMMW-LD	D14	LD	CP	STOCKTON, CA	BLANK0000054670 157.5
157		KBSV	D15	DT	APP	CERES, CA	BLANK0000072220 130.5

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
159	12611.8	5,512,424	10286.0	4,828,621	5943.7	1,053,718	2219.8	791,037	62.65 24.93

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161
162 Undesired                      Total IX      Unique IX, before    Unique IX, after
163 KQTA-LD D14 LD APP              7830.4      3,721,697           3723.9      262,681
164 KJEO-LD D14 LD CP                6.1         1,114                2.0         1,114
165 K14PC-D D14 LD CP                4.0          41                 0.0          0
166 K46LG-D D14 LD CP                1.0          0                 0.0          0
167 KSAO-LD D14 LD CP               61.6       12,008                8.1          49
168 KDTS-LD D14 LD APP             4319.1     3,771,059           4247.4     3,749,270
169 KMMW-LD D14 LD CP               62.6       19,202                4.0         2,623
170
171 -----
172 Interference to BLANK0000052106 APP scenario 1
173 **MX: 15.30% interference caused
174
175      Call      Chan  Svc Status  City, State      File Number      Distance
176 Desired:      KDTS-LD   D14   LD  APP      SAN FRANCISCO, CA  BLANK0000052106
177
178 Undesireds:    KQTA-LD   D14   LD  APP      San Francisco, CA  BLANK0000054596      3.6 km
179                KSAO-LD   D14   LD  CP       SACRAMENTO, CA     BLANK0000053702     152.8
180                KMMC-LD   D14   LD  APP      SAN FRANCISCO, CA  BLANK0000053901       6.5
181                KMMW-LD   D14   LD  CP       STOCKTON, CA       BLANK0000054670     153.9
182                KBSV     D15   DT  APP      CERES, CA          BLANK0000072220     129.4
183
184      Service area      Terrain-limited      IX-free, before      IX-free, after      Percent New IX
185      6962.6      4,212,680      5872.1      3,610,981      2224.1      999,691      2067.1      846,749      7.06      15.30
186
187 Undesired                      Total IX      Unique IX, before    Unique IX, after
188 KQTA-LD D14 LD APP              3670.4      2,458,642           157.0      152,942
189 KSAO-LD D14 LD CP                55.6         6,792                6.1          79
190 KMMC-LD D14 LD APP              3631.9     2,609,706           3557.1     2,600,152
191 KMMW-LD D14 LD CP                62.6         8,892                3.0          71
192
193 -----
194 Interference to BLANK0000054670 CP scenario 1
195
196      Call      Chan  Svc Status  City, State      File Number      Distance
197 Desired:      KMMW-LD   D14   LD  CP       STOCKTON, CA      BLANK0000054670
198
199 Undesireds:    KQTA-LD   D14   LD  APP      San Francisco, CA  BLANK0000054596     156.7 km
200                KJEO-LD   D14   LD  CP       FRESNO, CA         BLANK0000053775     162.7
201                K46LG-D   D14   LD  CP       MONTEREY, CA       BLANK0000054315     166.3
202                KSAO-LD   D14   LD  CP       SACRAMENTO, CA     BLANK0000053702       67.2
203                KMMC-LD   D14   LD  APP      SAN FRANCISCO, CA  BLANK0000053901     157.5
204                KDTS-LD   D14   LD  APP      SAN FRANCISCO, CA  BLANK0000052106     153.9
205                KBSV     D15   DT  APP      CERES, CA          BLANK0000072220      62.4
206
207      Service area      Terrain-limited      IX-free, before      IX-free, after      Percent New IX
208      8618.8      1,109,593      8287.6      1,100,559      7879.6      1,083,740      7877.6      1,083,740      0.03      0.00
209
210 Undesired                      Total IX      Unique IX, before    Unique IX, after
211 KQTA-LD D14 LD APP                5.0          91                 2.0          0
212 KJEO-LD D14 LD CP                4.1          0                 4.1          0
213 K46LG-D D14 LD CP                3.0          46                 0.0          0
214 KSAO-LD D14 LD CP              393.8       16,698           393.8       16,698
215 KMMC-LD D14 LD APP                9.1         121                 4.0          18
216 KDTS-LD D14 LD APP                5.1          91                 1.0          0
217
218 -----
219 Interference to BLEDT20090213AAZ LIC scenario 1
220
221      Call      Chan  Svc Status  City, State      File Number      Distance
222 Desired:      KBSV     D15   DT  LIC      CERES, CA          BLEDT20090213AAZ
223
224 Undesireds:    KQTA-LD   D14   LD  APP      San Francisco, CA  BLANK0000054596     98.9 km
225                KEZT-CD   D14   DC  BL       SACRAMENTO, CA     DTVBL52891          118.0
226                KKPX-TV   D14   DT  BL       SAN JOSE, CA       DTVBL22644           95.6
227                K08MM-D   D15   DC  LIC      BAKERSFIELD, CA    BLANK0000001629     329.0
228                KSBY     D15   DT  LIC      SAN LUIS OBISPO, CA BLEDT20081118AEW     247.1
229
230      Service area      Terrain-limited      IX-free, before      IX-free, after      Percent New IX
231      9519.8      1,356,966      8427.8      1,264,764      8373.5      1,264,647      8373.5      1,264,647      0.00      0.00
232
233 Undesired                      Total IX      Unique IX, before    Unique IX, after
234 KQTA-LD D14 LD APP                2.0          0                 0.0          0
235 KEZT-CD D14 DC BL                1.0          0                 1.0          0
236 KKPX-TV D14 DT BL                9.1         12                 7.1         12
237 KSBY D15 DT LIC                 45.2        105                44.1        105
238
239 -----
240 Interference to BLEDT20090213AAZ LIC scenario 2

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241
242
243      Call      Chan  Svc Status  City, State      File Number      Distance
244      Desired:   KBSV    D15   DT   LIC      CERES, CA        BLEDT20090213AAZ
245
246      Undesireds: KQTA-LD  D14   LD   APP      San Francisco, CA  BLANK0000054596      98.9 km
247      KEZT-CD    D14   DC   BL       SACRAMENTO, CA    DTVBL52891           118.0
248      KKPX-TV    D14   DT   BL       SAN JOSE, CA      DTVBL22644           95.6
249      K08MM-D    D15   DC   APP      BAKERSFIELD, CA   BLANK0000035875      329.0
250      KSBY       D15   DT   LIC      SAN LUIS OBISPO, CA  BLCDT20081118AEW     247.1
251
252      Service area      Terrain-limited      IX-free, before      IX-free, after      Percent New IX
253      9519.8    1,356,966      8427.8    1,264,764      8373.5    1,264,647      8373.5    1,264,647      0.00    0.00
254
255      Undesired      Total IX      Unique IX, before      Unique IX, after
256      KQTA-LD D14 LD APP      2.0      0      0.0      0
257      KEZT-CD D14 DC BL      1.0      0      1.0      0
258      KKPX-TV D14 DT BL      9.1      12     8.1      12
259      K08MM-D D15 DC APP      1.0      0      0.0      0
260      KSBY D15 DT LIC      45.2      105     43.1      105
261
262 -----
263 Interference to proposal scenario 1
264 **MX: 85.12% interference received
265
266      Call      Chan  Svc Status  City, State      File Number      Distance
267      Desired:   KQTA-LD  D14   LD   APP      San Francisco, CA  BLANK0000054596
268
269      Undesireds: KJEO-LD  D14   LD   CP       FRESNO, CA        BLANK0000053775      277.2 km
270      K14PC-D    D14   LD   CP       MONTEREY, CA      BNPDTL20100728AEU    137.3
271      K46LG-D    D14   LD   CP       MONTEREY, CA      BLANK0000054315      139.3
272      KSAO-LD    D14   LD   CP       SACRAMENTO, CA    BLANK0000053702      154.4
273      KMMC-LD    D14   LD   APP      SAN FRANCISCO, CA  BLANK0000053901       7.8
274      KDTS-LD    D14   LD   APP      SAN FRANCISCO, CA  BLANK0000052106       3.6
275      KMMW-LD    D14   LD   CP       STOCKTON, CA      BLANK0000054670     156.7
276      KBSV       D15   DT   APP      CERES, CA        BLANK0000072220     132.8
277
278      Service area      Terrain-limited      IX-free      Percent IX
279      13943.7    5,494,892      11316.0    4,685,295      2602.6      697,238      77.00    85.12
280
281      Undesired      Total IX      Unique IX      Prcnt Unique IX
282      KJEO-LD D14 LD CP      8.1      2      0.0      0      0.00    0.00
283      K14PC-D D14 LD CP      1.0      0      0.0      0      0.00    0.00
284      K46LG-D D14 LD CP      1.0      0      0.0      0      0.00    0.00
285      KSAO-LD D14 LD CP     144.3     10,570      1.0      0      0.01    0.00
286      KMMC-LD D14 LD APP     8481.0    3,826,637    4123.1    385,304    36.44    8.22
287      KDTS-LD D14 LD APP     4573.1    3,597,238    215.3    160,427     1.90    3.42
288      KMMW-LD D14 LD CP     167.5     25,526      0.0      0      0.00    0.00

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