

1 tvstudy v2.2.5 (4uoc83)  
2 Database: 127.0.0.1, Study: BLANK0000138052 #168, Model: Longley-Rice  
3 Start: 2021.05.26 14:20:07

4  
5 Study created: 2021.05.26 14:20:07

6  
7 Study build station data: LMS TV 2021-05-12

8  
9 Proposal: KQSL D8 DD LIC FORT BRAGG, CA  
10 File number: BLANK0000138052  
11 Facility ID: 8378  
12 Station data: User record  
13 Record ID: 142  
14 Country: U.S.  
15 Zone: II  
16 Ref. lat.: 39 41 38.00 N  
17 Ref. long.: 123 34 43.00 W  
18 # DTS sites: 2

19  
20 Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
23	Yes	KRCR-TV	D7	DT	LIC REDDING, CA	BLCDDT20110930AST	128.1 km
24	No	KRON-TV	D7	DT	LIC SAN FRANCISCO, CA	BLANK0000112902	236.6
25	Yes	KSBW	D8	DT	LIC SALINAS, CA	BLCDDT20090901ACY	373.4
26	Yes	KOLO-TV	D8	DT	LIC RENO, NV	BLCDDT20090612ABN	319.6
27	Yes	KSYS	D8	DT	LIC MEDFORD, OR	BLEDDT20090520ABE	334.5
28	Yes	KIXE-TV	D9	DT	LIC REDDING, CA	BLEDDT20080909ABK	128.1
29	No	KVIE	D9	DT	CP SACRAMENTO, CA	BLANK0000035686	238.8
30	No	KVIE	D9	DT	LIC SACRAMENTO, CA	BMLEDDT20100913ABV	238.8

31  
32 No non-directional AM stations found within 0.8 km

33  
34 No directional AM stations found within 3.2 km

35  
36 Record parameters as studied, DTS site # 1:

37  
38 Channel: D8  
39 Latitude: 39 41 37.50 N (NAD83)  
40 Longitude: 123 34 47.00 W  
41 Height AMSL: 1326.0 m  
42 HAAT: 744.0 m  
43 Peak ERP: 26.0 kW  
44 Antenna: BOG-B6VG-H (ID 84907) 0.0 deg  
45 Elev Pattn: Generic

46  
47 36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
49 0.0 deg	19.2 kW	721.7 m	123.1 km
50 45.0	3.80	670.7	106.5
51 90.0	4.70	685.8	108.7
52 135.0	24.8	681.5	124.6
53 180.0	2.66	777.5	105.9
54 225.0	1.09	850.2	99.9
55 270.0	0.939	801.7	97.7
56 315.0	12.7	722.6	118.7

57  
58 Database HAAT does not agree with computed HAAT  
59 Database HAAT: 744 m Computed HAAT: 739 m

60  
61 ERP exceeds maximum  
62 ERP: 26.0 kW ERP maximum: 21.6 kW

63  
64 Record parameters as studied, DTS site # 2:

65  
66 Channel: D8  
67 Latitude: 38 45 44.00 N (NAD83)  
68 Longitude: 122 50 28.00 W  
69 Height AMSL: 1045.0 m  
70 HAAT: 593.0 m  
71 Peak ERP: 1.00 kW  
72 Antenna: SCA-CL-713 (ID 113813) 266.0 deg  
73 Elev Pattn: Generic

74  
75 36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
77 0.0 deg	0.000 kW	373.4 m	16.6 km
78 45.0	0.000	197.1	16.9
79 90.0	0.000	292.5	24.8
80 135.0	0.000	742.3	25.4
81 180.0	0.000	896.6	24.0
82 225.0	0.102	886.9	81.9
83 270.0	0.956	803.7	97.9
84 315.0	0.004	497.1	43.8

85  
86 Database HAAT does not agree with computed HAAT

87 Database HAAT: 593 m      Computed HAAT: 586 m  
 88  
 89 \*\*DTS proposal has coverage outside reference facility and distance limit  
 90  
 91 Distance to Canadian border: 948.2 km  
 92  
 93 Distance to Mexican border: 840.1 km  
 94  
 95 Conditions at FCC monitoring station: Livermore CA  
 96 DTS site # 1    Bearing: 143.5 degrees    Distance: 270.1 km  
 97 DTS site # 2    Bearing: 140.2 degrees    Distance: 149.3 km  
 98  
 99 Proposal is not within the West Virginia quiet zone area  
 100  
 101 Conditions at Table Mountain receiving zone:  
 102 DTS site # 1    Bearing: 82.4 degrees    Distance: 1560.5 km  
 103 DTS site # 2    Bearing: 78.7 degrees    Distance: 1514.7 km  
 104  
 105  
 106 Study cell size: 2.00 km  
 107 Profile point spacing: 1.00 km  
 108  
 109 Maximum new IX to full-service and Class A: 0.50%  
 110 Maximum new IX to LPTV: 2.00%  
 111  
 112  
 113 -----

114 Interference to BLCDDT20110930AST LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KRCR-TV	D7	DT	LIC	REDDING, CA	BLCDDT20110930AST	
Undesireds:	KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	128.2 km
	KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	128.1
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	316.9
-----							
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	51457.0	485,749	43836.0	464,698	43550.8    464,138	43554.7    464,138	-0.01    0.00
-----							
Undesired			Total IX		Unique IX, before	Unique IX, after	
KQSL D8 DT BL		156.7	26		140.6    26		
KQSL D8 DD LIC		152.8	26			136.7    26	
KRON-TV D7 DT LIC		144.6	534		128.5    534	128.5    534	

132 Interference to BLCDDT20090901ACY LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	373.5 km
	KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	373.4
	KAIL	D7	DT	CP	FRESNO, CA	BLANK0000035715	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	CP	SACRAMENTO, CA	BLANK0000035686	168.4
-----							
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	47633.6	5,083,461	40391.7	4,429,165	36687.2    3,706,663	36687.2    3,706,663	0.00    0.00
-----							
Undesired			Total IX		Unique IX, before	Unique IX, after	
KQSL D8 DT BL		79.6	42,143		12.0    498		
KQSL D8 DD LIC		79.6	42,143			12.0    498	
KAIL D7 DT CP		2112.7	128,917		2092.9    128,892	2092.9    128,892	
KRON-TV D7 DT LIC		760.7	490,685		712.9    438,952	712.9    438,952	
KOLO-TV D8 DT LIC		700.2	105,478		310.9    9,277	310.9    9,277	
KVIE D9 DT CP		500.3	85,441		154.8    14,752	154.8    14,752	

156 Interference to BLCDDT20090901ACY LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	373.5 km
	KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	373.4
	KAIL	D7	DT	CP	FRESNO, CA	BLANK0000035715	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	LIC	SACRAMENTO, CA	BML EDT20100913ABV	168.4
-----							
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	47633.6	5,083,461	40391.7	4,429,165	36691.2    3,706,696	36691.2    3,706,696	0.00    0.00
-----							
Undesired			Total IX		Unique IX, before	Unique IX, after	
KQSL D8 DT BL		79.6	42,143		12.0    498		

173	KQSL D8 DD LIC	79.6	42,143			12.0	498	
174	KAIL D7 DT CP	2112.7	128,917	2092.9	128,892	2092.9	128,892	
175	KRON-TV D7 DT LIC	760.7	490,685	712.9	438,952	712.9	438,952	
176	KOLO-TV D8 DT LIC	700.2	105,478	310.9	9,277	310.9	9,277	
177	KVIE D9 DT LIC	496.3	85,408	150.8	14,719	150.8	14,719	
178								
179	-----							
180	Interference to BLCDT20090901ACY LIC scenario 3							
181								
182	Call	Chan	Svc	Status	City, State	File Number	Distance	
183	Desired: KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY		
184								
185	Undesireds: KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	373.5 km	
186	KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	373.4	
187	KAIL	D7	DT	LIC	FRESNO, CA	BLCDT20021002ABH	187.3	
188	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3	
189	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDT20090612ABN	317.6	
190	KVIE	D9	DT	CP	SACRAMENTO, CA	BLANK0000035686	168.4	
191								
192	Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
193	47633.6	5,083,461	40391.7	4,429,165	36843.4	3,712,384	36843.4	3,712,384
194								
195	Undesired	Total IX		Unique IX, before		Unique IX, after		
196	KQSL D8 DT BL	79.6	42,143	12.0	498			
197	KQSL D8 DD LIC	79.6	42,143			12.0	498	
198	KAIL D7 DT LIC	1956.5	123,196	1936.6	123,171	1936.6	123,171	
199	KRON-TV D7 DT LIC	760.7	490,685	712.9	438,952	712.9	438,952	
200	KOLO-TV D8 DT LIC	700.2	105,478	310.9	9,277	310.9	9,277	
201	KVIE D9 DT CP	500.3	85,441	154.8	14,752	154.8	14,752	
202								
203	-----							
204	Interference to BLCDT20090901ACY LIC scenario 4							
205								
206	Call	Chan	Svc	Status	City, State	File Number	Distance	
207	Desired: KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY		
208								
209	Undesireds: KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	373.5 km	
210	KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	373.4	
211	KAIL	D7	DT	LIC	FRESNO, CA	BLCDT20021002ABH	187.3	
212	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3	
213	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDT20090612ABN	317.6	
214	KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLEDT20100913ABV	168.4	
215								
216	Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
217	47633.6	5,083,461	40391.7	4,429,165	36847.4	3,712,417	36847.4	3,712,417
218								
219	Undesired	Total IX		Unique IX, before		Unique IX, after		
220	KQSL D8 DT BL	79.6	42,143	12.0	498			
221	KQSL D8 DD LIC	79.6	42,143			12.0	498	
222	KAIL D7 DT LIC	1956.5	123,196	1936.6	123,171	1936.6	123,171	
223	KRON-TV D7 DT LIC	760.7	490,685	712.9	438,952	712.9	438,952	
224	KOLO-TV D8 DT LIC	700.2	105,478	310.9	9,277	310.9	9,277	
225	KVIE D9 DT LIC	496.3	85,408	150.8	14,719	150.8	14,719	
226								
227	-----							
228	Interference to BLCDT20090612ABN LIC scenario 1							
229								
230	Call	Chan	Svc	Status	City, State	File Number	Distance	
231	Desired: KOLO-TV	D8	DT	LIC	RENO, NV	BLCDT20090612ABN		
232								
233	Undesireds: KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	319.7 km	
234	KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	319.6	
235	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	317.6	
236	KVIE	D9	DT	CP	SACRAMENTO, CA	BLANK0000035686	182.1	
237								
238	Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
239	47911.3	959,178	40665.5	826,985	39956.1	805,230	39956.1	805,230
240								
241	Undesired	Total IX		Unique IX, before		Unique IX, after		
242	KQSL D8 DT BL	172.4	13,847	52.1	4,003			
243	KQSL D8 DD LIC	172.4	13,847			52.1	4,003	
244	KSBW D8 DT LIC	589.1	16,038	440.7	1,451	440.7	1,451	
245	KVIE D9 DT CP	180.6	15,238	40.1	1,237	40.1	1,237	
246								
247	-----							
248	Interference to BLCDT20090612ABN LIC scenario 2							
249								
250	Call	Chan	Svc	Status	City, State	File Number	Distance	
251	Desired: KOLO-TV	D8	DT	LIC	RENO, NV	BLCDT20090612ABN		
252								
253	Undesireds: KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	319.7 km	
254	KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	319.6	
255	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	317.6	
256	KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLEDT20100913ABV	182.1	
257								
258	Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX

259	47911.3	959,178	40665.5	826,985	39956.1	805,230	39956.1	805,230	0.00	0.00
260										
261	Undesired			Total IX	Unique IX, before	Unique IX, after				
262	KQSL D8 DT BL		172.4	13,847	52.1	4,003				
263	KQSL D8 DD LIC		172.4	13,847			52.1	4,003		
264	KSBW D8 DT LIC		589.1	16,038	440.7	1,451	440.7	1,451		
265	KVIE D9 DT LIC		180.6	15,238	40.1	1,237	40.1	1,237		
266										
267	-----									
268	Interference to BLEDT20090520ABE LIC scenario 1									
269										
270		Call	Chan	Svc	Status	City, State	File Number	Distance		
271	Desired:	KSYS	D8	DT	LIC	MEDFORD, OR	BLEDT20090520ABE			
272										
273	Undesireds:	KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	334.5 km		
274		KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	334.5		
275		KGW	D8	DT	LIC	PORTLAND, OR	BLANK0000107807	316.9		
276		KEZI	D9	DT	LIC	EUGENE, OR	BLANK0000075069	179.5		
277										
278		Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX		
279	47690.2	519,209	37978.4	443,204	37763.0	441,550	37763.0	441,550	0.00	0.00
280										
281	Undesired			Total IX	Unique IX, before	Unique IX, after				
282	KQSL D8 DT BL		20.0	4	20.0	4				
283	KQSL D8 DD LIC		20.0	4			20.0	4		
284	KGW D8 DT LIC		151.5	1,563	123.5	1,388	123.5	1,388		
285	KEZI D9 DT LIC		71.8	262	43.8	87	43.8	87		
286										
287	-----									
288	Interference to BLEDT20080909ABK LIC scenario 1									
289										
290		Call	Chan	Svc	Status	City, State	File Number	Distance		
291	Desired:	KIXE-TV	D9	DT	LIC	REDDING, CA	BLEDT20080909ABK			
292										
293	Undesireds:	KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	128.1 km		
294		KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	128.1		
295		KVIE	D9	DT	CP	SACRAMENTO, CA	BLANK0000035686	277.1		
296		KTVL	D10	DT	LIC	MEDFORD, OR	BLANK0000115956	164.4		
297										
298		Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX		
299	51583.0	502,959	41969.3	457,651	41234.1	436,094	41234.1	436,094	0.00	0.00
300										
301	Undesired			Total IX	Unique IX, before	Unique IX, after				
302	KQSL D8 DT BL		116.5	58	108.6	58				
303	KQSL D8 DD LIC		116.5	58			108.6	58		
304	KVIE D9 DT CP		432.9	21,322	425.0	21,322	425.0	21,322		
305	KTVL D10 DT LIC		193.6	177	193.6	177	193.6	177		
306										
307	-----									
308	Interference to BLEDT20080909ABK LIC scenario 2									
309										
310		Call	Chan	Svc	Status	City, State	File Number	Distance		
311	Desired:	KIXE-TV	D9	DT	LIC	REDDING, CA	BLEDT20080909ABK			
312										
313	Undesireds:	KQSL	D8	DT	BL	FORT BRAGG, CA	DTVBL8378	128.1 km		
314		KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052	128.1		
315		KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLEDT20100913ABV	277.1		
316		KTVL	D10	DT	LIC	MEDFORD, OR	BLANK0000115956	164.4		
317										
318		Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX		
319	51583.0	502,959	41969.3	457,651	41234.1	436,094	41234.1	436,094	0.00	0.00
320										
321	Undesired			Total IX	Unique IX, before	Unique IX, after				
322	KQSL D8 DT BL		116.5	58	108.6	58				
323	KQSL D8 DD LIC		116.5	58			108.6	58		
324	KVIE D9 DT LIC		432.9	21,322	425.0	21,322	425.0	21,322		
325	KTVL D10 DT LIC		193.6	177	193.6	177	193.6	177		
326										
327	-----									
328	Interference to proposal scenario 1									
329	0.77% interference received									
330										
331		Call	Chan	Svc	Status	City, State	File Number	Distance		
332	Desired:	KQSL	D8	DD	LIC	FORT BRAGG, CA	BLANK0000138052			
333										
334	Undesireds:	KRCR-TV	D7	DT	LIC	REDDING, CA	BLCDDT20110930AST	128.1 km		
335		KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	373.4		
336		KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	319.6		
337		KSYS	D8	DT	LIC	MEDFORD, OR	BLEDT20090520ABE	334.5		
338		KIXE-TV	D9	DT	LIC	REDDING, CA	BLEDT20080909ABK	128.1		
339										
340		Service area		Terrain-limited		IX-free	Percent IX			
341	40215.8	203,529	32904.4	152,246	32708.0	151,081	0.60	0.77		
342										
343	Undesired			Total IX	Unique IX	Prcnt Unique IX				
344	KRCR-TV D7 DT LIC		36.2	0	0.0	0	0.00	0.00		

345	KSBW D8 DT LIC	44.0	409	40.0	409	0.12	0.27
346	KOLO-TV D8 DT LIC	28.0	656	24.0	656	0.07	0.43
347	KSYS D8 DT LIC	32.1	100	32.1	100	0.10	0.07
348	KIXE-TV D9 DT LIC	96.3	0	60.1	0	0.18	0.00
349							