

TV Station KVIE • Channel 9 • Sacramento, California

TVStudy Output

tvstudy v2.2.4 (eJTcZ3)
Database: localhost, Study: KVIE 35.1 New, Model: Longley-Rice
Start: 2017.11.27 11:04:38

Study created: 2017.11.27 11:04:38

Study build station data: LMS TV 2017-11-06 (14)

Proposal: KVIE D9 DT APP SACRAMENTO, CA
File number: KVIE 35.1 New
Facility ID: 35855
Station data: User record
Record ID: 188
Country: U.S.
Zone: II

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

Search options:
Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDT20090610AAS	238.9 km
Yes	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	168.4
Yes	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDT20090612ABN	182.1
No	DK09UF	D9	DC	APP	MORRO BAY, CA	BDFCDVA20060707AEQ	332.3
Yes	KIXE-TV	D9	DT	LIC	REDDING, CA	BLEDT20080909ABK	277.1
Yes	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	3.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D9
Latitude: 38 16 18.00 N (NAD83)
Longitude: 121 30 22.00 W
Height AMSL: 597.9 m
HAAT: 596.8 m
Peak ERP: 35.1 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.25

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	35.1 kW	596.1 m	124.3 km
45.0	35.1	591.0	123.9
90.0	35.1	592.4	124.0
135.0	35.1	595.3	124.2
180.0	35.1	598.3	124.5
225.0	35.1	598.9	124.5
270.0	35.1	597.8	124.4
315.0	35.1	595.9	124.3

Database HAAT does not agree with computed HAAT
Database HAAT: 597 m Computed HAAT: 596 m

ERP exceeds maximum
ERP: 35.1 kW ERP maximum: 31.9 kW

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1118.4 km



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

November 27, 2017
KVIE-TVStudy

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Distance to Mexican border: 729.8 km

**Proposal is within coordination distance of FCC monitoring station
 Conditions at FCC monitoring station: Livermore CA
 Bearing: 199.8 degrees Distance: 64.5 km
 ERP: 35.1 kW HAAT: 598.8 m Field strength: 66.4 dBu, 2.1 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 76.6 degrees Distance: 1412.9 km

Study cell size: 2.00 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%

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 Interference to BLCDT20090901ACY LIC scenario 1

Desired:	Call KSBW	Chan D8	Svc DT	Status LIC	City, State SALINAS, CA	File Number BLCDT20090901ACY	Distance	
Undesireds:	KVIE	D9	DT	BL	SACRAMENTO, CA	DTVBL35855	168.4 km	
	KVIE	D9	DT	APP	SACRAMENTO, CA	KVIE 35.1 New	168.4	
	KAIL	D7	DT	LIC	FRESNO, CA	BLCDT20021002ABH	187.3	
	KRON-TV	D7	DT	CP	SAN FRANCISCO, CA	BLANK0000029842	139.3	
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDT20090610AAS	373.5	
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDT20090612ABN	317.6	
	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New
IX								
47633.6	5,083,461	40391.7	4,429,165	36847.4	3,712,417	36839.5	3,711,558	0.02
0.02								
Undesired				Total IX	Unique IX, before	Unique IX, after		
KVIE D9 DT BL		496.3		85,408	150.8	14,719		
KVIE D9 DT APP		516.2		86,279			158.7	15,578
KAIL D7 DT LIC		1956.5		123,196	1936.6	123,171	1936.6	123,171
KRON-TV D7 DT CP		760.7		490,685	712.9	438,952	712.9	438,952
KQSL D8 DT LIC		79.6		42,143	12.0	498	12.0	498
KOLO-TV D8 DT LIC		700.2		105,478	310.9	9,277	299.0	9,265

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 Interference to BLCDT20090901ACY LIC scenario 2

Desired:	Call KSBW	Chan D8	Svc DT	Status LIC	City, State SALINAS, CA		File Number BLCDT20090901ACY		Distance
Undesireds:	KVIE	D9	DT	BL	SACRAMENTO, CA		DTVBL35855		168.4 km
	KVIE	D9	DT	APP	SACRAMENTO, CA		KVIE 35.1 New		168.4
	KAIL	D7	DT	CP	FRESNO, CA		BPCDT20100401ABQ		187.3
	KRON-TV	D7	DT	CP	SAN FRANCISCO, CA		BLANK0000029842		139.3
	KQSL	D8	DT	LIC	FORT BRAGG, CA		BLCDT20090610AAS		373.5
	KOLO-TV	D8	DT	LIC	RENO, NV		BLCDT20090612ABN		317.6
Service area		Terrain-limited			IX-free, before		IX-free, after		Percent New
IX									
47633.6	5,083,461	40391.7	4,429,165	36711.0	3,711,643	36703.0	3,710,784	0.02	
0.02									
Undesired				Total IX		Unique IX, before		Unique IX, after	
KVIE	D9	DT	BL	496.3	85,408	150.8	14,719		



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KVIE D9 DT APP	516.2	86,279			158.7	15,578
KAIL D7 DT CP	2092.9	123,970	2073.0	123,945	2073.0	123,945
KRON-TV D7 DT CP	760.7	490,685	712.9	438,952	712.9	438,952
KQSL D8 DT LIC	79.6	42,143	12.0	498	12.0	498
KOLO-TV D8 DT LIC	700.2	105,478	310.9	9,277	299.0	9,265

Interference to BLCDDT20090901ACY LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KVIE	D9	DT	BL	SACRAMENTO, CA	DTVBL35855	168.4 km
	KVIE	D9	DT	APP	SACRAMENTO, CA	KVIE 35.1 New	168.4
	KAIL	D7	DT	LIC	FRESNO, CA	BLCDDT20021002ABH	187.3
	KRON-TV	D7	DT	BL	SAN FRANCISCO, CA	DTVBL65526	139.3
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDDT20090610AAS	373.5
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New
IX	47633.6	5,083,461	40391.7	4,429,165	36791.5	3,728,383	36783.6	3,727,524	0.02
0.02									

Undesired			Total IX		Unique IX, before		Unique IX, after
KVIE D9 DT BL	496.3		85,408	150.8	14,719		
KVIE D9 DT APP	516.2		86,279			158.7	15,578
KAIL D7 DT LIC	1956.5		123,196	1936.6	123,171	1936.6	123,171
KRON-TV D7 DT BL	816.6		474,719	768.8	422,986	768.8	422,986
KQSL D8 DT LIC	79.6		42,143	12.0	498	12.0	498
KOLO-TV D8 DT LIC	700.2		105,478	310.9	9,277	299.0	9,265

Interference to BLCDDT20090901ACY LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KVIE	D9	DT	BL	SACRAMENTO, CA	DTVBL35855	168.4 km
	KVIE	D9	DT	APP	SACRAMENTO, CA	KVIE 35.1 New	168.4
	KAIL	D7	DT	CP	FRESNO, CA	BPCDDT20100401ABQ	187.3
	KRON-TV	D7	DT	BL	SAN FRANCISCO, CA	DTVBL65526	139.3
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDDT20090610AAS	373.5
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New
IX	47633.6	5,083,461	40391.7	4,429,165	36655.1	3,727,609	36647.1	3,726,750	0.02
0.02									

Undesired			Total IX		Unique IX, before		Unique IX, after
KVIE D9 DT BL	496.3		85,408	150.8	14,719		
KVIE D9 DT APP	516.2		86,279			158.7	15,578
KAIL D7 DT CP	2092.9		123,970	2073.0	123,945	2073.0	123,945
KRON-TV D7 DT BL	816.6		474,719	768.8	422,986	768.8	422,986
KQSL D8 DT LIC	79.6		42,143	12.0	498	12.0	498
KOLO-TV D8 DT LIC	700.2		105,478	310.9	9,277	299.0	9,265

Interference to BLCDDT20090612ABN LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	
Undesireds:	KVIE	D9	DT	BL	SACRAMENTO, CA	DTVBL35855	182.1 km
	KVIE	D9	DT	APP	SACRAMENTO, CA	KVIE 35.1 New	182.1



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	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDT20090610AAS	319.7
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	317.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New
IX							
47911.3	959,178	40665.5	826,985	39956.1	805,230	39956.1	805,230
0.00							0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KVIE D9 DT BL	180.6			15,238	40.1	1,237	
KVIE D9 DT APP	180.6			15,238		40.1	1,237
KQSL D8 DT LIC	172.4			13,847	52.1	4,003	4,003
KSBW D8 DT LIC	589.1			16,038	440.7	440.7	1,451

Interference to BLEDT20080909ABK LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KIXE-TV	D9	DT	LIC	REDDING, CA	BLEDT20080909ABK	
Undesireds:	KVIE	D9	DT	BL	SACRAMENTO, CA	DTVBL35855	277.1 km
	KVIE	D9	DT	APP	SACRAMENTO, CA	KVIE 35.1 New	277.1
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDT20090610AAS	128.1
	KEZI	D9	DT	LIC	EUGENE, OR	BLCDT20090225ADH	391.5
	KTVL	D10	DT	LIC	MEDFORD, OR	BLCDT20090612AGJ	164.4

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New
IX							
51583.0	502,959	41969.3	457,651	41302.6	436,124	41290.6	436,094
0.01							0.03
Undesired				Total IX	Unique IX, before	Unique IX, after	
KVIE D9 DT BL	420.9			21,292	413.0	21,292	
KVIE D9 DT APP	432.9			21,322		425.0	21,322
KQSL D8 DT LIC	116.5			58	108.6	58	108.6
KEZI D9 DT LIC	4.0			0	0.0	0	0.0
KTVL D10 DT LIC	137.1			177	133.1	177	133.1

Interference to BLCDT20120201AAM LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	
Undesireds:	KVIE	D9	DT	BL	SACRAMENTO, CA	DTVBL35855	3.5 km
	KVIE	D9	DT	APP	SACRAMENTO, CA	KVIE 35.1 New	3.5
	KERO-TV	D10	DT	LIC	BAKERSFIELD, CA	BLCDT20100929AEF	403.4
	KCBA	D11	DT	CP	SALINAS, CA	BLANK0000028196	164.9
	KTVN	D11	DT	APP	RENO, NV	BLANK0000034040	184.2

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New
IX							
47357.4	10,759,864	40979.4	7,477,140	40528.3	7,463,455	40524.3	7,463,424
0.00							0.01
Undesired				Total IX	Unique IX, before	Unique IX, after	
KVIE D9 DT BL	143.9			3,460	143.9	3,460	
KVIE D9 DT APP	147.8			3,491		147.8	3,491
KERO-TV D10 DT LIC	307.2			10,225	307.2	10,225	307.2

Interference to proposal scenario 1 2.49% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVIE	D9	DT	APP	SACRAMENTO, CA	KVIE 35.1 New	



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Undesireds:	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	168.4 km
	KIXE-TV	D9	DT	LIC	REDDING, CA	BLEDT20080909ABK	277.1
	KXTV	D10	DT	LIC	SACRAMENTO, CA	BLCDT20120201AAM	3.5

Service area		Terrain-limited		IX-free		Percent IX
48509.7	10,781,354	42003.4	7,603,543	39262.5	7,413,853	6.53 2.49

Undesired		Total IX		Unique IX		Prcnt Unique IX
KSBW D8 DT LIC	16.0	111	16.0	111	0.04	0.00
KIXE-TV D9 DT LIC	2664.9	188,210	2656.9	187,978	6.33	2.47
KXTV D10 DT LIC	68.1	1,601	60.1	1,369	0.14	0.02

