

## **ENGINEERING EXHIBIT**

### **Application for Minor Modification of Digital Low Power Television Station**

prepared for

**William J. Jaeger**  
KOTR-LD Monterey, CA  
Facility ID 187515  
Ch. 7 3 kW Directional

*William J. Jaeger* (“*Jaeger*”) is the licensee of digital Low Power Television station KOTR-LD, Channel 7, Monterey CA, Facility ID 187515. KOTR-LD is licensed (BLDVL-20140916ABL) to operate at 0.1 kW effective radiated power (“ERP”) with a directional antenna. *Jaeger* proposes herein a minor modification to relocate KOTR-LD to a different transmitting location and increase ERP.

As proposed herein, KOTR-LD will be relocated to an existing tower structure located 20.9 km (13.0 miles) from the licensed KOTR-LD site. The existing antenna supporting structure is not registered as the overall structure height is less than 61 meters above ground and passes the FCC’s TOWAIR program for the tower location. The proposed KOTR-LD facility will employ a directional antenna system to be side-mounted on the tower and no change to the overall structure height is proposed.

The proposed KOTR-LD facility will operate at 3 kW ERP using a “full service” out of channel emission mask. The proposed antenna is a circularly polarized Jampro model JSL-6/7 SCC-V. A plot of the directional antenna’s azimuthal pattern is supplied in Figure 1. Figure 2 depicts the 48 dBμ coverage contours of the licensed and proposed facilities, demonstrating compliance with §73.3572 for a minor change.

Interference study per OET Bulletin 69<sup>1</sup> shows that the proposal complies with the FCC's interference protection requirements toward all digital television, television translator, LPTV, and Class A stations. The results, summarized in Table 1, show that any new interference does not exceed the FCC's interference limits (0.5 percent to full power and Class A stations, and 2.0 percent to secondary stations) to any facility.

### **Human Exposure to Radiofrequency Electromagnetic Field (Environmental)**

The proposed facility was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number 65. Based on OET-65 equation (10) and 20 percent antenna relative field in downward elevations (pattern data shows less than 20 percent relative field at angles 20 – 90 degrees below the horizontal), the calculated power density attributable to the proposed facility at locations near the transmitter site at a height of two meters above ground level is  $5.6 \mu\text{W}/\text{cm}^2$ , which is 2.8 percent of the general population / uncontrolled maximum permissible exposure limit. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower, or antenna from RF electromagnetic field exposure in excess of FCC guidelines. This exhibit is limited to the evaluation of exposure to RF electromagnetic field. No increase in structure height is proposed.

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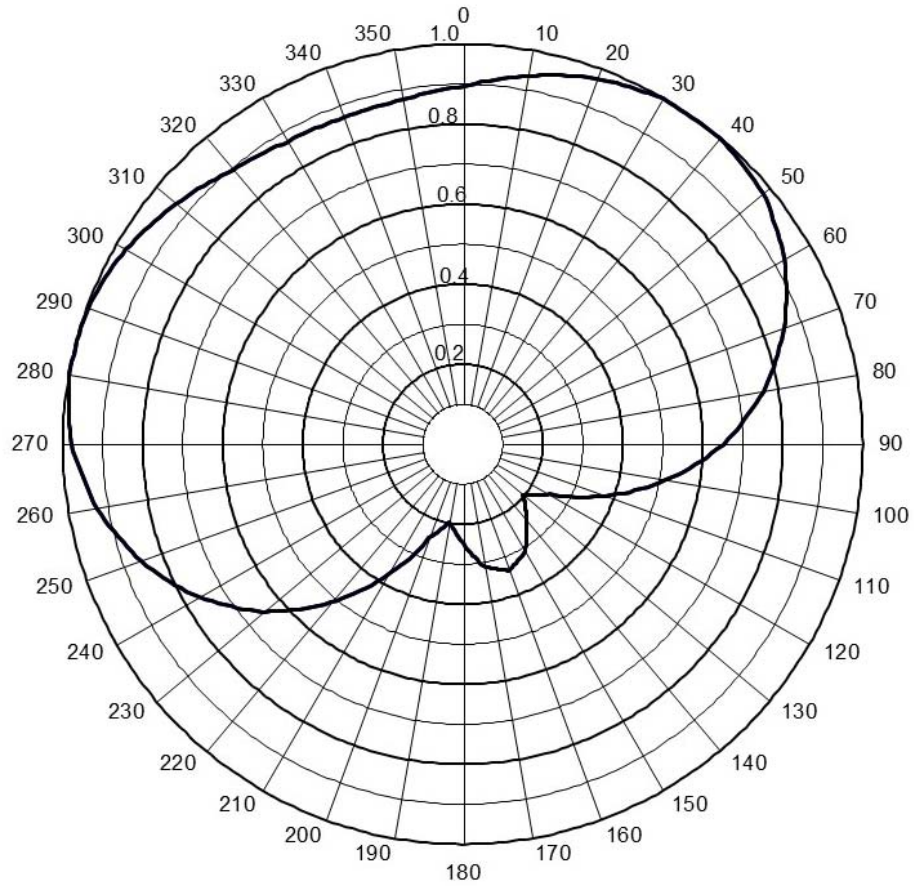
<sup>1</sup>FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). This analysis employed the FCC's current "TVStudy" software with the default application processing template settings, 1 km cell size, and 1 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC's implementation of TVStudy show excellent correlation.

List of Attachments

Figure 1	Antenna Azimuthal Pattern
Figure 2	Coverage Contour Comparison
Table 1	TVStudy Analysis of Proposal
Form 2100	Saved Version of Engineering Sections from FCC Form at Time of Upload

**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E.	September 23, 2020	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600



Values in Relative Field

Channel: 7  
Site: KOTR-LD

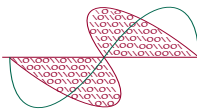
Model: JSL-6 / 7 SCC-V  
Description: VHF Slot Antenna  
Notes: Circularly Polarized



**Figure 1**  
**Antenna Azimuthal Pattern**  
**KOTR-LD Monterey, CA**  
**Facility ID 187515**  
**Ch. 7 3 kW Directional**

prepared for  
**William J. Jaeger**

September, 2020



**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

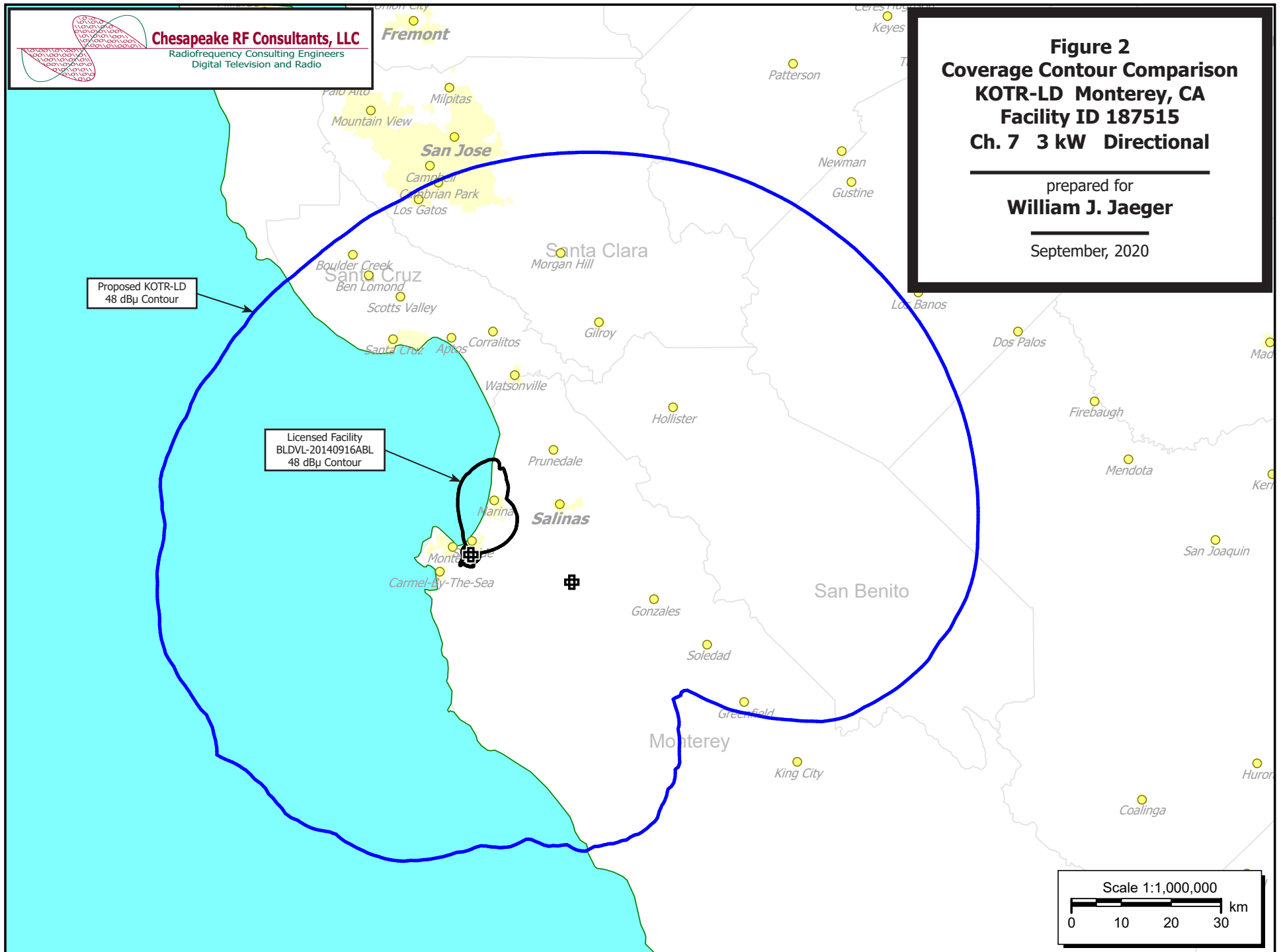
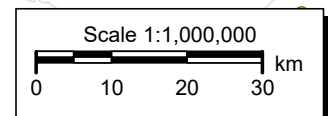
**Figure 2**  
**Coverage Contour Comparison**  
**KOTR-LD Monterey, CA**  
**Facility ID 187515**  
**Ch. 7 3 kW Directional**

prepared for  
**William J. Jaeger**

September, 2020

Proposed KOTR-LD  
48 dBμ Contour

Licensed Facility  
BLDVL-20140916ABL  
48 dBμ Contour



# **Table 1 KOTR-LD TVStudy Analysis of Proposal** (page 1 of 9)



tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: KOTR-LD\_prop, Model: Longley-Rice  
Start: 2020.09.23 09:43:58

Study created: 2020.09.23 09:43:57

Study build station data: LMS TV 2020-09-22

Proposal: KOTR-LD D7 LD APP Monterey, CA  
File number: KOTR-LD\_prop  
Facility ID: 187515  
Station data: User record  
Record ID: 3225  
Country: U.S.

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

Search options:  
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	NEW	D7	LD	CP	BAKERSFIELD, CA	BNPDTL20090825APG	278.8 km
Yes	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	204.2
Yes	KAIL	D7	DT	LIC	FRESNO, CA	BLCDT20021002ABH	204.2
Yes	KAIL	D7	DT	CP	FRESNO, CA	BPCDT20100401ABQ	204.2
No	KABC-TV	D7	DT	CP	LOS ANGELES, CA	BLANK0000035672	412.3
No	KABC-TV	D7	DT	LIC	LOS ANGELES, CA	BLANK0000058534	412.3
No	KRCR-TV	D7	DT	LIC	REDDING, CA	BLCDT20110930AST	460.6
No	K07NH	N7	TX	LIC	RIDGECREST, ETC., CA	BLTTV4569	374.1
Yes	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	153.9
Yes	K07AAI-D	D7	LD	CP	RENO, NV	BLANK0000071891	344.0
Yes	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	26.8
No	KDTS-LD	D8	LD	LIC	SAN FRANCISCO, CA	BLDVL20110107ADR	152.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D7  
Mask: Full Service  
Latitude: 36 32 13.00 N (NAD83)  
Longitude: 121 37 36.90 W  
Height AMSL: 1003.2 m  
HAAT: 0.0 m  
Peak ERP: 3.00 kW  
Antenna: JSL-6 7 SCC-V 0.0 deg  
Elev Pattn: Generic  
Elec Tilt: 2.00

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.40 kW	950.1 m	86.1 km
45.0	2.93	932.4	87.3
90.0	1.27	874.4	79.9
135.0	0.147	154.7	31.1
180.0	0.182	520.2	53.1
225.0	1.02	600.3	70.4
270.0	2.88	730.3	83.0
315.0	2.51	782.0	83.3

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 693 m

Distance to Canadian border: 1308.4 km

Distance to Mexican border: 580.9 km

Conditions at FCC monitoring station: Livermore CA

**Table 1 KOTR-LD TV Study Analysis of Proposal**  
(page 2 of 9)



Bearing: 355.1 degrees Distance: 132.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 69.4 degrees Distance: 1479.7 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%

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Interference to BLANK0000035715 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	204.2 km
	KABC-TV	D7	DT	CP	LOS ANGELES, CA	BLANK0000035672	339.4
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	277.3
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	187.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
48010.9	2,133,774	44543.5	2,091,823	43715.8	2,084,465	43177.2 2,081,981	1.23 0.12
Undesired		Total IX		Unique IX, before		Unique IX, after	
KOTR-LD D7 LD APP		913.8	5,204			538.6 2,484	
KABC-TV D7 DT CP		19.2	2,178	19.2	2,178	18.2 2,178	
KRON-TV D7 DT LIC		807.5	5,180	805.4	5,180	434.3 2,460	
KSBW D8 DT LIC		3.0	0	1.0	0	0.0 0	

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Interference to BLANK0000035715 APP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	204.2 km
	KABC-TV	D7	DT	LIC	LOS ANGELES, CA	BLANK0000058534	339.4
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	277.3
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	187.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
48010.9	2,133,774	44543.5	2,091,823	43728.9	2,086,643	43190.3 2,084,159	1.23 0.12
Undesired		Total IX		Unique IX, before		Unique IX, after	
KOTR-LD D7 LD APP		913.8	5,204			538.6 2,484	
KABC-TV D7 DT LIC		6.1	0	6.1	0	5.1 0	
KRON-TV D7 DT LIC		807.5	5,180	805.4	5,180	434.3 2,460	
KSBW D8 DT LIC		3.0	0	1.0	0	0.0 0	

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Interference to BLCDDT20021002ABH LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KAIL	D7	DT	LIC	FRESNO, CA	BLCDDT20021002ABH	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	204.2 km
	KABC-TV	D7	DT	CP	LOS ANGELES, CA	BLANK0000035672	339.5
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	277.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37102.5	1,964,140	35022.7	1,944,824	34330.4	1,940,719	33960.6 1,939,757	1.08 0.05
Undesired		Total IX		Unique IX, before		Unique IX, after	
KOTR-LD D7 LD APP		685.3	3,450			369.7 962	
KABC-TV D7 DT CP		9.0	2	9.0	2	7.0 2	
KRON-TV D7 DT LIC		683.2	4,103	683.2	4,103	369.6 1,615	

**Table 1 KOTR-LD TVStudy Analysis of Proposal**  
(page 3 of 9)



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Interference to BLCDT20021002ABH LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAIL	D7	DT	LIC	FRESNO, CA	BLCDT20021002ABH	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	204.2 km
	KABC-TV	D7	DT	LIC	LOS ANGELES, CA	BLANK0000058534	339.5
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	277.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37102.5 1,964,140		35022.7 1,944,824		34333.4 1,940,721		33962.7 1,939,759	1.08 0.05
Undesired		Total IX		Unique IX, before		Unique IX, after	
KOTR-LD D7 LD APP		685.3 3,450				370.7 962	
KABC-TV D7 DT LIC		6.0 0		6.0 0		5.0 0	
KRON-TV D7 DT LIC		683.2 4,103		683.2 4,103		369.6 1,615	

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Interference to BPCDT20100401ABQ CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAIL	D7	DT	CP	FRESNO, CA	BPCDT20100401ABQ	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	204.2 km
	KABC-TV	D7	DT	CP	LOS ANGELES, CA	BLANK0000035672	339.4
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	277.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
41833.3 1,984,853		38773.7 1,952,963		38064.0 1,946,547		37581.8 1,945,747	1.27 0.04
Undesired		Total IX		Unique IX, before		Unique IX, after	
KOTR-LD D7 LD APP		828.4 3,340				482.2 800	
KABC-TV D7 DT CP		12.1 2,534		12.1 2,534		10.1 2,534	
KRON-TV D7 DT LIC		697.6 3,882		697.6 3,882		353.5 1,342	

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Interference to BPCDT20100401ABQ CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAIL	D7	DT	CP	FRESNO, CA	BPCDT20100401ABQ	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	204.2 km
	KABC-TV	D7	DT	LIC	LOS ANGELES, CA	BLANK0000058534	339.4
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	277.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
41833.3 1,984,853		38773.7 1,952,963		38068.1 1,946,547		37585.8 1,945,747	1.27 0.04
Undesired		Total IX		Unique IX, before		Unique IX, after	
KOTR-LD D7 LD APP		828.4 3,340				482.2 800	
KABC-TV D7 DT LIC		8.1 2,534		8.1 2,534		6.0 2,534	
KRON-TV D7 DT LIC		697.6 3,882		697.6 3,882		353.5 1,342	

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Interference to BLANK0000112902 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	153.9 km
	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	277.3
	KRCR-TV	D7	DT	LIC	REDDING, CA	BLCDT20110930AST	316.9
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	139.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
42404.0 8,583,379		37917.0 7,970,205		33615.6 7,089,001		31211.7 7,082,126	7.15 0.10
Undesired		Total IX		Unique IX, before		Unique IX, after	
KOTR-LD D7 LD APP		2994.1 110,575				2404.0 6,875	
KAIL D7 DT APP		3174.3 775,851		2483.0 630,319		2209.0 559,273	
KRCR-TV D7 DT LIC		1564.6 232,231		989.2 90,021		966.2 88,406	
KSBW D8 DT LIC		253.8 18,654		137.8 15,332		11.0 94	



**Table 1 KOTR-LD TVStudy Analysis of Proposal**  
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Interference to BLANK0000112902 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	153.9 km
	KAIL	D7	DT	LIC	FRESNO, CA	BLCDDT20021002ABH	277.2
	KRCR-TV	D7	DT	LIC	REDDING, CA	BLCDDT20110930AST	316.9
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	139.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
42404.0 8,583,379		37917.0 7,970,205		33592.4 7,082,727		31182.3 7,075,794	7.17 0.10
Undesired			Total IX		Unique IX, before		Unique IX, after
KOTR-LD D7 LD APP			2994.1 110,575		2410.1 6,933		
KAIL D7 DT LIC			3195.9 765,496		2238.3 565,605		
KRCR-TV D7 DT LIC			1564.6 232,231		952.8 105,015		
KSBW D8 DT LIC			253.8 18,654		11.0 94		

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Interference to BLANK0000112902 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	153.9 km
	KAIL	D7	DT	CP	FRESNO, CA	BPCDDT20100401ABQ	277.3
	KRCR-TV	D7	DT	LIC	REDDING, CA	BLCDDT20110930AST	316.9
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	139.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
42404.0 8,583,379		37917.0 7,970,205		33761.8 7,137,169		31345.7 7,130,278	7.16 0.10
Undesired			Total IX		Unique IX, before		Unique IX, after
KOTR-LD D7 LD APP			2994.1 110,575		2416.0 6,891		
KAIL D7 DT CP			2835.4 697,445		2074.9 511,121		
KRCR-TV D7 DT LIC			1564.6 232,231		1124.0 116,217		
KSBW D8 DT LIC			253.8 18,654		12.0 94		

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Interference to BLANK0000071891 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K07AAI-D	D7	LD	CP	RENO, NV	BLANK0000071891	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	344.0 km
	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	251.9
	KRCR-TV	D7	DT	LIC	REDDING, CA	BLCDDT20110930AST	276.0
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	282.3
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	0.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
17768.2 645,169		12711.6 557,578		12586.9 554,674		12586.9 554,674	0.00 0.00
Undesired			Total IX		Unique IX, before		Unique IX, after
KOTR-LD D7 LD APP			1.0 0		0.0 0		
KRCR-TV D7 DT LIC			17.9 0		7.0 0		
KRON-TV D7 DT LIC			31.9 0		22.0 0		
KOLO-TV D8 DT LIC			87.8 2,904		84.8 2,904		

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Interference to BLCDDT20090901ACY LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	187.3
	KRCR-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DD	APP	FORT BRAGG, CA	BLANK0000058621	373.4
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6

**Table 1 KOTR-LD TV Study Analysis of Proposal**  
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KVIE	D9	DT	APP	SACRAMENTO, CA	BLANK0000035686	168.4
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
47642.4 5,098,539	40289.0	4,488,282	36136.5	3,744,157	36107.4 3,744,146	0.08 0.00
Undesired	Total IX		Unique IX, before		Unique IX, after	
KOTR-LD D7 LD APP	29.1	11			29.1 11	
KAIL D7 DT APP	2538.5	140,711	2514.5	140,368	2514.5 140,368	
KRON-TV D7 DT LIC	727.3	485,741	521.8	307,412	521.8 307,412	
KQSL D8 DD APP	286.3	193,380	65.5	19,748	65.5 19,748	
KOLO-TV D8 DT LIC	708.5	103,221	307.3	10,010	307.3 10,010	
KVIE D9 DT APP	511.9	85,312	165.1	17,647	165.1 17,647	

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Interference to BLCDT20090901ACY LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DD	APP	FORT BRAGG, CA	BLANK0000058621	373.4
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDT20090612ABN	317.6
	KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLEDT20100913ABV	168.4
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX	
47642.4 5,098,539	40289.0	4,488,282	36144.6	3,746,351	36115.5 3,746,340	0.08 0.00	
Undesired	Total IX		Unique IX, before		Unique IX, after		
KOTR-LD D7 LD APP	29.1	11			29.1 11		
KAIL D7 DT APP	2538.5	140,711	2514.5	140,368	2514.5 140,368		
KRON-TV D7 DT LIC	727.3	485,741	521.8	307,412	521.8 307,412		
KQSL D8 DD APP	286.3	193,380	65.5	19,748	65.5 19,748		
KOLO-TV D8 DT LIC	708.5	103,221	314.4	10,158	314.4 10,158		
KVIE D9 DT LIC	496.7	82,970	157.0	15,453	157.0 15,453		

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Interference to BLCDT20090901ACY LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDT20090610AAS	373.5
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDT20090612ABN	317.6
	KVIE	D9	DT	APP	SACRAMENTO, CA	BLANK0000035686	168.4
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX	
47642.4 5,098,539	40289.0	4,488,282	36185.8	3,758,532	36156.7 3,758,521	0.08 0.00	
Undesired	Total IX		Unique IX, before		Unique IX, after		
KOTR-LD D7 LD APP	29.1	11			29.1 11		
KAIL D7 DT APP	2538.5	140,711	2514.5	140,368	2514.5 140,368		
KRON-TV D7 DT LIC	727.3	485,741	661.4	439,818	661.4 439,818		
KQSL D8 DT LIC	83.1	33,762	16.2	5,373	16.2 5,373		
KOLO-TV D8 DT LIC	708.5	103,221	309.3	10,260	309.3 10,260		
KVIE D9 DT APP	511.9	85,312	165.1	17,647	165.1 17,647		

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Interference to BLCDT20090901ACY LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDT20090610AAS	373.5
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDT20090612ABN	317.6
	KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLEDT20100913ABV	168.4

**Table 1 KOTR-LD TVStudy Analysis of Proposal**  
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Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
47642.4 5,098,539	40289.0 4,488,282	36193.9 3,760,726	36164.8 3,760,715	0.08 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
KOTR-LD D7 LD APP	29.1 11	29.1 11	29.1 11	
KAIL D7 DT APP	2538.5 140,711	2514.5 140,368	2514.5 140,368	
KRON-TV D7 DT LIC	727.3 485,741	661.4 439,818	661.4 439,818	
KQSL D8 DT LIC	83.1 33,762	16.2 5,373	16.2 5,373	
KOLO-TV D8 DT LIC	708.5 103,221	316.4 10,408	316.4 10,408	
KVIE D9 DT LIC	496.7 82,970	157.0 15,453	157.0 15,453	

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Interference to BLCDDT20090901ACY LIC scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	LIC	FRESNO, CA	BLCDDT20021002ABH	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DD	APP	FORT BRAGG, CA	BLANK0000058621	373.4
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	APP	SACRAMENTO, CA	BLANK0000035686	168.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
47642.4 5,098,539	40289.0 4,488,282	36798.7 3,758,801	36769.6 3,758,790	0.08 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
KOTR-LD D7 LD APP	29.1 11	29.1 11	29.1 11	
KAIL D7 DT LIC	1876.3 126,067	1852.3 125,724	1852.3 125,724	
KRON-TV D7 DT LIC	727.3 485,741	521.8 307,412	521.8 307,412	
KQSL D8 DD APP	286.3 193,380	65.5 19,748	65.5 19,748	
KOLO-TV D8 DT LIC	708.5 103,221	307.3 10,010	307.3 10,010	
KVIE D9 DT APP	511.9 85,312	165.1 17,647	165.1 17,647	

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Interference to BLCDDT20090901ACY LIC scenario 6

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	CP	FRESNO, CA	BPCDDT20100401ABQ	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DD	APP	FORT BRAGG, CA	BLANK0000058621	373.4
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	APP	SACRAMENTO, CA	BLANK0000035686	168.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
47642.4 5,098,539	40289.0 4,488,282	36651.9 3,762,625	36622.8 3,762,614	0.08 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
KOTR-LD D7 LD APP	29.1 11	29.1 11	29.1 11	
KAIL D7 DT CP	2023.0 122,243	1999.0 121,900	1999.0 121,900	
KRON-TV D7 DT LIC	727.3 485,741	521.8 307,412	521.8 307,412	
KQSL D8 DD APP	286.3 193,380	65.5 19,748	65.5 19,748	
KOLO-TV D8 DT LIC	708.5 103,221	307.3 10,010	307.3 10,010	
KVIE D9 DT APP	511.9 85,312	165.1 17,647	165.1 17,647	

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Interference to BLCDDT20090901ACY LIC scenario 7

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	LIC	FRESNO, CA	BLCDDT20021002ABH	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DD	APP	FORT BRAGG, CA	BLANK0000058621	373.4
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLDDT20100913ABV	168.4

**Table 1 KOTR-LD TVStudy Analysis of Proposal**  
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Service area	Terrain-limited	IX-free, before		IX-free, after		Percent New IX	
47642.4 5,098,539	40289.0 4,488,282	36806.8	3,760,995	36777.7	3,760,984	0.08	0.00
Undesired	Total IX	Unique IX, before		Unique IX, after			
KOTR-LD D7 LD APP	29.1 11	29.1 11		29.1 11			
KAIL D7 DT LIC	1876.3 126,067	1852.3	125,724	1852.3	125,724		
KRON-TV D7 DT LIC	727.3 485,741	521.8	307,412	521.8	307,412		
KQSL D8 DD APP	286.3 193,380	65.5	19,748	65.5	19,748		
KOLO-TV D8 DT LIC	708.5 103,221	314.4	10,158	314.4	10,158		
KVIE D9 DT LIC	496.7 82,970	157.0	15,453	157.0	15,453		

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Interference to BLCDDT20090901ACY LIC scenario 8

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	CP	FRESNO, CA	BPCDDT20100401ABQ	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DD	APP	FORT BRAGG, CA	BLANK0000058621	373.4
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLEDT20100913ABV	168.4

Service area	Terrain-limited	IX-free, before		IX-free, after		Percent New IX	
47642.4 5,098,539	40289.0 4,488,282	36660.0	3,764,819	36630.9	3,764,808	0.08	0.00
Undesired	Total IX	Unique IX, before		Unique IX, after			
KOTR-LD D7 LD APP	29.1 11	29.1 11		29.1 11			
KAIL D7 DT CP	2023.0 122,243	1999.0	121,900	1999.0	121,900		
KRON-TV D7 DT LIC	727.3 485,741	521.8	307,412	521.8	307,412		
KQSL D8 DD APP	286.3 193,380	65.5	19,748	65.5	19,748		
KOLO-TV D8 DT LIC	708.5 103,221	314.4	10,158	314.4	10,158		
KVIE D9 DT LIC	496.7 82,970	157.0	15,453	157.0	15,453		

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Interference to BLCDDT20090901ACY LIC scenario 9

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	LIC	FRESNO, CA	BLCDDT20021002ABH	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDDT20090610AAS	373.5
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	APP	SACRAMENTO, CA	BLANK0000035686	168.4

Service area	Terrain-limited	IX-free, before		IX-free, after		Percent New IX	
47642.4 5,098,539	40289.0 4,488,282	36848.0	3,773,176	36818.9	3,773,165	0.08	0.00
Undesired	Total IX	Unique IX, before		Unique IX, after			
KOTR-LD D7 LD APP	29.1 11	29.1 11		29.1 11			
KAIL D7 DT LIC	1876.3 126,067	1852.3	125,724	1852.3	125,724		
KRON-TV D7 DT LIC	727.3 485,741	661.4	439,818	661.4	439,818		
KQSL D8 DT LIC	83.1 33,762	16.2	5,373	16.2	5,373		
KOLO-TV D8 DT LIC	708.5 103,221	309.3	10,260	309.3	10,260		
KVIE D9 DT APP	511.9 85,312	165.1	17,647	165.1	17,647		

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Interference to BLCDDT20090901ACY LIC scenario 10

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	CP	FRESNO, CA	BPCDDT20100401ABQ	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDDT20090610AAS	373.5
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	APP	SACRAMENTO, CA	BLANK0000035686	168.4

Service area	Terrain-limited	IX-free, before		IX-free, after		Percent New IX	
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**Table 1 KOTR-LD TV Study Analysis of Proposal**  
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47642.4 5,098,539 40289.0 4,488,282 36701.3 3,777,000 36672.2 3,776,989 0.08 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KOTR-LD D7 LD APP	29.1	11	29.1	11
KAIL D7 DT CP	2023.0	122,243	1999.0	121,900
KRON-TV D7 DT LIC	727.3	485,741	661.4	439,818
KQSL D8 DT LIC	83.1	33,762	16.2	5,373
KOLO-TV D8 DT LIC	708.5	103,221	309.3	10,260
KVIE D9 DT APP	511.9	85,312	165.1	17,647

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Interference to BLCDDT20090901ACY LIC scenario 11

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	LIC	FRESNO, CA	BLCDDT20021002ABH	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDDT20090610AAS	373.5
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLED20100913ABV	168.4

Service area Terrain-limited IX-free, before IX-free, after Percent New IX  
47642.4 5,098,539 40289.0 4,488,282 36856.1 3,775,370 36827.1 3,775,359 0.08 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KOTR-LD D7 LD APP	29.1	11	29.1	11
KAIL D7 DT LIC	1876.3	126,067	1852.3	125,724
KRON-TV D7 DT LIC	727.3	485,741	661.4	439,818
KQSL D8 DT LIC	83.1	33,762	16.2	5,373
KOLO-TV D8 DT LIC	708.5	103,221	316.4	10,408
KVIE D9 DT LIC	496.7	82,970	157.0	15,453

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Interference to BLCDDT20090901ACY LIC scenario 12

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	
Undesireds:	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	26.8 km
	KAIL	D7	DT	CP	FRESNO, CA	BPCDDT20100401ABQ	187.3
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	139.3
	KQSL	D8	DT	LIC	FORT BRAGG, CA	BLCDDT20090610AAS	373.5
	KOLO-TV	D8	DT	LIC	RENO, NV	BLCDDT20090612ABN	317.6
	KVIE	D9	DT	LIC	SACRAMENTO, CA	BMLED20100913ABV	168.4

Service area Terrain-limited IX-free, before IX-free, after Percent New IX  
47642.4 5,098,539 40289.0 4,488,282 36709.4 3,779,194 36680.3 3,779,183 0.08 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KOTR-LD D7 LD APP	29.1	11	29.1	11
KAIL D7 DT CP	2023.0	122,243	1999.0	121,900
KRON-TV D7 DT LIC	727.3	485,741	661.4	439,818
KQSL D8 DT LIC	83.1	33,762	16.2	5,373
KOLO-TV D8 DT LIC	708.5	103,221	316.4	10,408
KVIE D9 DT LIC	496.7	82,970	157.0	15,453

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Interference to proposal scenario 1

\*\*MX: 8.21% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	
Undesireds:	KAIL	D7	DT	APP	FRESNO, CA	BLANK0000035715	204.2 km
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	153.9
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	26.8

Service area Terrain-limited IX-free Percent IX  
17540.3 1,132,468 13012.8 801,448 11975.6 735,651 7.97 8.21

Undesired Total IX Unique IX Prcnt Unique IX

**Table 1 KOTR-LD TV Study Analysis of Proposal**  
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KAIL D7 DT APP	259.0	3,715	165.0	330	1.27	0.04
KRON-TV D7 DT LIC	259.8	16,158	84.8	1,036	0.65	0.13
KSBW D8 DT LIC	776.4	64,431	537.4	45,936	4.13	5.73

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Interference to proposal scenario 2  
8.17% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	
Undesireds:	KAIL	D7	DT	LIC	FRESNO, CA	BLCDDT20021002ABH	204.2 km
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	153.9
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	26.8
Service area		Terrain-limited		IX-free		Percent IX	
17540.3	1,132,468	13012.8		801,448	11991.6	735,941	7.85 8.17
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KAIL D7 DT LIC		226.9		3,247	148.9	40	1.14 0.00
KRON-TV D7 DT LIC		259.8		16,158	86.8	1,036	0.67 0.13
KSBW D8 DT LIC		776.4		64,431	549.5	46,114	4.22 5.75

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Interference to proposal scenario 3  
8.17% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOTR-LD	D7	LD	APP	Monterey, CA	KOTR-LD_prop	
Undesireds:	KAIL	D7	DT	CP	FRESNO, CA	BPCDDT20100401ABQ	204.2 km
	KRON-TV	D7	DT	LIC	SAN FRANCISCO, CA	BLANK0000112902	153.9
	KSBW	D8	DT	LIC	SALINAS, CA	BLCDDT20090901ACY	26.8
Service area		Terrain-limited		IX-free		Percent IX	
17540.3	1,132,468	13012.8		801,448	11996.6	735,977	7.81 8.17
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KAIL D7 DT CP		217.9		41	143.9	4	1.11 0.00
KRON-TV D7 DT LIC		259.8		16,158	86.8	1,036	0.67 0.13
KSBW D8 DT LIC		776.4		64,431	553.4	49,284	4.25 6.15

**Channel and Facility Information**

Section	Question	Response
Facility ID	187515	
State	California	
City	MONTEREY	
LPD Channel	7	

**Antenna Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
<b>Coordinates (NAD83)</b>	Latitude	36° 32' 13.0" N+
	Longitude	121° 37' 36.9" W-
	Structure Type	LTOWER-Lattice Tower
	Overall Structure Height	45.7 meters
	Support Structure Height	45.7 meters
	Ground Elevation (AMSL)	963.2 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	40 meters
	Height of Radiation Center Above Mean Sea Level	1003.2 meters
	Effective Radiated Power	3 kW

**Antenna  
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	
Antenna Manufacturer and Model	Manufacturer:	Jampro
	Model	JSL-6/7 SCC-V
	Rotation	0 degrees
	Electrical Beam Tilt	2.0
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Circular
Elevation Radiation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	
	Out-of-Channel Emission Mask:	Full Service

**Directional Antenna Relative Field Values (Pre-rotated Pattern)**

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.895	90	0.651	180	0.246	270	0.979
10	0.935	100	0.516	190	0.197	280	0.999
20	0.974	110	0.377	200	0.249	290	0.998
30	0.998	120	0.249	210	0.377	300	0.974
40	0.999	130	0.197	220	0.516	310	0.935
50	0.979	140	0.246	230	0.651	320	0.895
60	0.929	150	0.310	240	0.763	330	0.874
70	0.856	160	0.336	250	0.856	340	0.869
80	0.763	170	0.310	260	0.929	350	0.874

**Additional Azimuths**

Degree	V <sub>A</sub>
36	1.000
284	1.000