



## ENGINEERING EXHIBIT

### **Incentive Auction Channel Reassignment**

#### **Priority Station Application for Modification of Digital Television Station Construction Permit**

prepared for

**Sacramento Television Stations, Inc**  
KMAX-TV Sacramento, CA  
Facility ID 51499  
Ch. 24 1000 kW 613 m

*Sacramento Television Stations, Inc* (“STSI”) is the licensee of digital television station KMAX-TV, Channel 21, Facility ID 51477, Sacramento, CA. Reassignment of KMAX-TV from Channel 21 to Channel 24 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice* (“CCRPN”, DA 17-317, released April 13, 2017). A Construction Permit (“CP”, file# 0000026890) authorizes the KMAX-TV Channel 24 post-auction facility. STSI herein seeks to modify the CP to expand the post-auction facility.

This proposal is intended to be filed during the priority filing window.<sup>1</sup> KMAX-TV’s reassignment facility suffers from a 1.95 percent loss of interference-free population<sup>2</sup> when compared to that of its baseline<sup>3</sup> pre-auction facility. Since the loss is over one percent, KMAX-TV is eligible to file for an expanded facility in the priority filing window.<sup>4</sup> A population summary is provided in the following.

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<sup>1</sup>“Incentive Auction Task Force and Media Bureau Announce the Opening of the First Priority Filing Window for Eligible Full Power and Class A Television Stations from August 9 through September 8, 2017” Public Notice, DA 17-724, released July 31, 2017.

<sup>2</sup>CCRPN “Coverage Baseline for Post-Auction Table of Allotments”.

<sup>3</sup>“Final Digital Television Baseline Coverage Area And Population Served Information Related To Incentive Auction Repacking,” DA 15-1296, Public Notice, Released November 12, 2015.

<sup>4</sup>KMAX-TV is included with the FCC’s list of “Greater Than 1% Population Loss” stations at the link [http://data.fcc.gov/download/incentive-auctions/Transition\\_Files/](http://data.fcc.gov/download/incentive-auctions/Transition_Files/).

**KMAX-TV Interference-Free Service Population**

November 2015 Pre-Auction Baseline (Ch. 21):	6,914,121
April 2017 Reassignment Baseline (Ch. 24):	6,778,983
Change:	-1.95%

The current CP authorizes operation with an effective radiated power (“ERP”) of 630 kW with a nondirectional antenna at 613 meters height above average terrain (“HAAT”). An increase in ERP to 1000 kW is proposed herein. No other changes are proposed.

The CP specifies a new antenna system to be top-mounted on the candelabra tower structure associated with FCC Antenna Structure Registration number 1011404. No change to the overall structure height will result.

The antenna is a nondirectional elliptically polarized Dielectric model TFU-28GTH/VP-R O4A (25 percent vertical polarization). The proposed horizontally polarized ERP is 1000 kW and the vertically polarized ERP is 250 kW.

A map is supplied as Figure 1 which depicts the standard predicted coverage contours. This map includes the location of Sacramento, KMAX-TV’s principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1) as the entire principal community will be encompassed by the 48 dB $\mu$  contour.

Interference study per FCC OET Bulletin 69<sup>5</sup> shows that the proposal complies with the 0.5 percent limit of new interference caused to pertinent nearby post-auction full service and Class A television stations and reassessments as required by §73.616. The interference study output report is provided as Table 1. The results include 0.52 percent interference caused to the CCRPN baseline facility for KQCA (Ch. 23, Stockton CA), which does not present a conflict for

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<sup>5</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, 2 km cell size, and 1 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCCs implementation of TVStudy show excellent correlation.

the proposal. The KQCA CP facility (file# 0000024621) would receive 0.45 percent interference which complies with the 0.5 percent limit. Pursuant to post-auction application procedures,<sup>6,7</sup> protection of a baseline facility is not required for stations such as KQCA which have a CP for their post-auction facility.

The proposed 1000 kW ERP exceeds the maximum allowed for the proposed antenna HAAT of 613 meters permitted by §73.622(f)(8)(i). Section 73.622(f)(5) permits the maximum ERP to be exceeded in order to provide the same geographic coverage area as the largest station within the same market. As demonstrated in Figure 2, the total area within the proposed KMAX-TV NLSC is 46,412 square kilometers, which does not exceed the 47,544 sq. km NLSC area of KXTV (Ch. 10, Sacramento CA, BLCDT-20120201AAM). Thus, the 1000 kW ERP specified herein is in compliance with §73.622(f)(5) of the FCC's Rules.

The nearest FCC monitoring station is 61 km distant at Livermore, CA. Using the FCC propagation curves, the proposed F(50,90) signal level at the monitoring station is 4.8 mV/m, which is below the 10 mV/m threshold of §73.1030(c) for further analysis. The site is not located within the areas requiring coordination with “quiet” zones specified in §73.1030(a) and (b). The site location is beyond the border areas requiring international coordination. There are no authorized AM stations within 3 kilometers of the site.

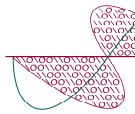
### **Human Exposure to Radiofrequency Electromagnetic Field (Environmental)**

The proposed operation 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 considering 10 percent antenna relative field in downward elevations (pattern data shows

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<sup>6</sup>Priority filing window Public Notice, DA 17-724, at para. 4 “Applicants in the first priority filing window must protect the construction permit facilities of reassigned stations and band changing stations, whether those stations’ applications have been granted or remain pending.” and footnote 11 “Applicants in the first priority filing window must protect the facilities specified in the Closing and Channel Reassignment Public Notice for reassigned stations that did not file construction permit applications prior to the opening of the first priority filing window.”

<sup>7</sup>*Incentive Auction Task Force and Media Bureau Announce Procedures for the Post-Incentive Auction Broadcast Transition*, Public Notice, DA 17-106, released January 27, 2017, at para. 30 “Applicants in the first priority window must protect the construction permit facilities of reassigned stations and band changing stations filed in the initial 90-day window if those stations’ applications have been granted or remain pending. Otherwise, applicants in the first priority window must protect the facilities specified in the Closing and Reassignment Public Notice.”



less than 10 percent relative field at angles 15 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is  $1.1 \mu\text{W}/\text{cm}^2$ , which is 0.3 percent of the general population/uncontrolled maximum permitted exposure limit. This is well 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.

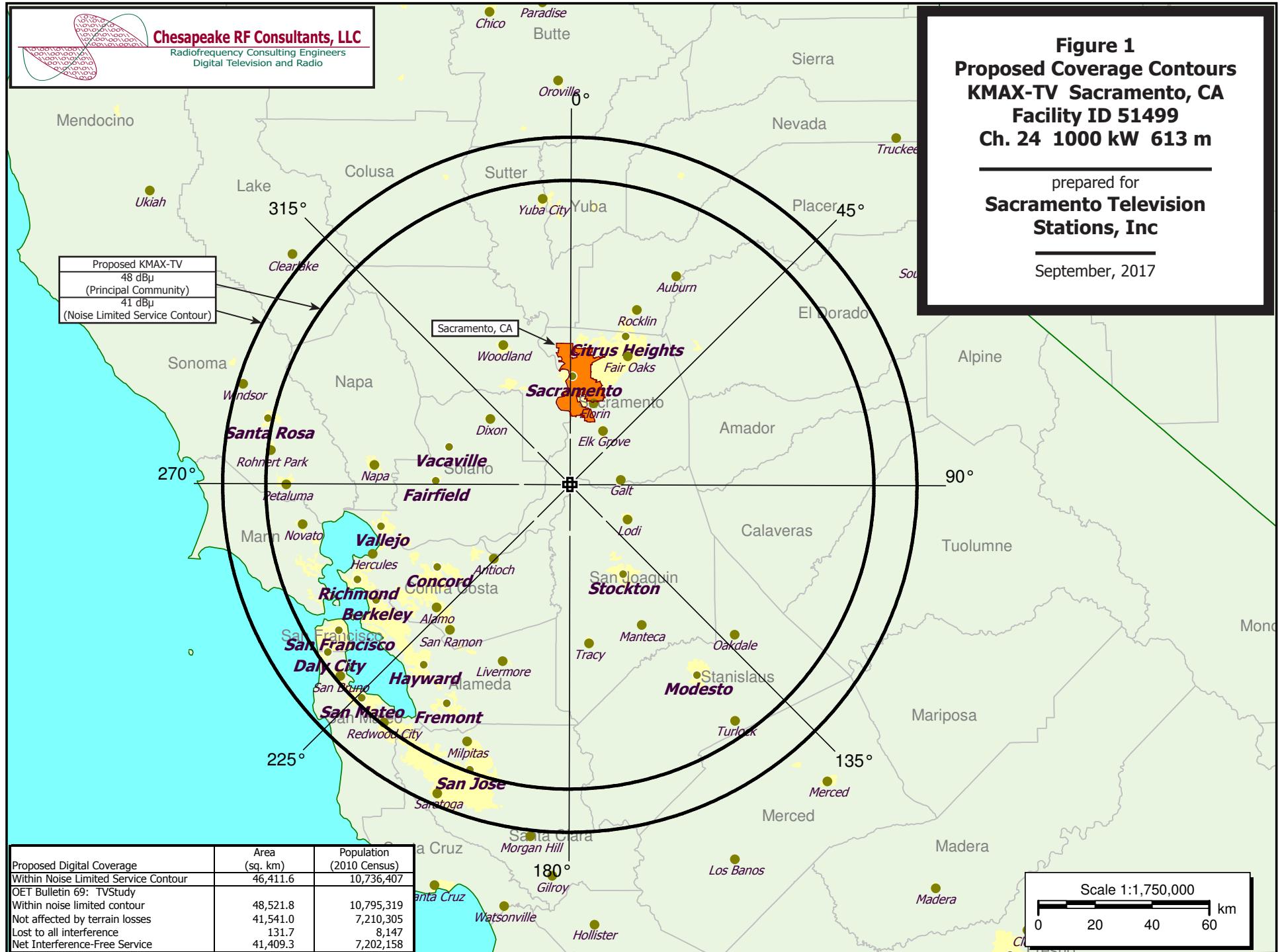
The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power 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.

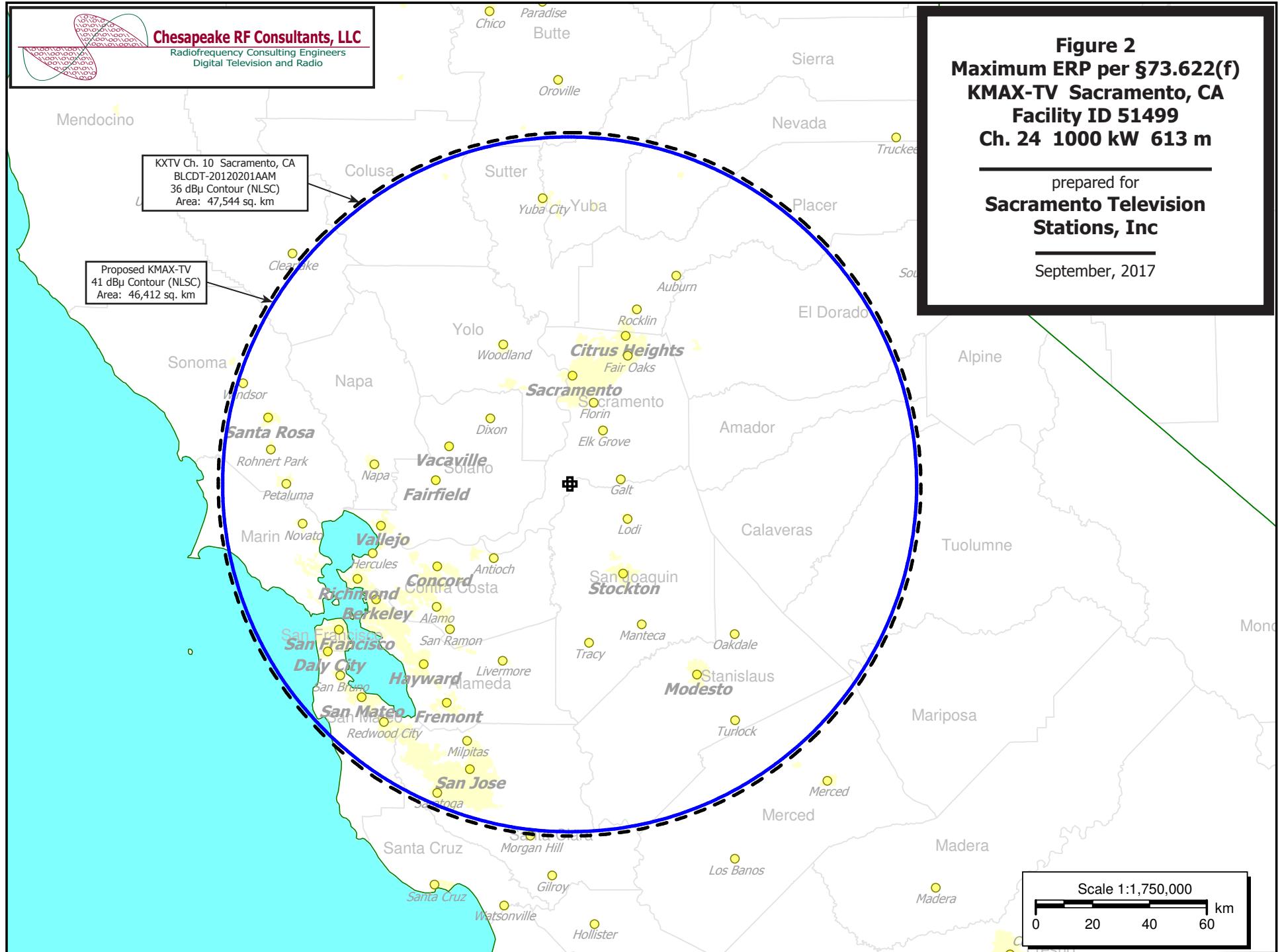
### List of Attachments

- Figure 1 Proposed Coverage Contours  
Figure 2 Maximum ERP per §73.622(f)  
Table 1 OET Bulletin 69 Interference Study  
Form 2100 Saved Version of Engineering Sections from FCC Form at Time of Upload

## **Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E. September 1, 2017  
207 Old Dominion Road Yorktown, VA 23692 703-650-9600





**Table 1 KMAX-TV OET Bulletin 69 Interference Study**  
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tvstudy v2.2.3 (DAezul)  
 Database: localhost, Study: KMAX-TV prop at 1000kW\_, Model: Longley-Rice  
 Start: 2017.08.31 17:09:38

Study created: 2017.08.31 17:09:14

Study build station data: LMS TV 2017-08-30 LMSTV

Proposal: KMAX-TV D24 DT APP SACRAMENTO, CA  
 File number: KMAX-TV prop at 1000kW  
 Facility ID: 51499  
 Station data: User record  
 Record ID: 967  
 Country: U.S.  
 Zone: II

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	2.9 km
KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242	2.9
KOVR	D25	DT	CP	STOCKTON, CA	BPCBT20111004AAN	0.0
KOVR	D25	DT	LIC	STOCKTON, CA	BLCDT20110922ABJ	0.0
KQET	D25	DT	LIC	WATSONVILLE, CA	BLEDT20090624ABV	164.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24  
 Latitude: 38 14 24.00 N (NAD83)  
 Longitude: 121 30 7.00 W  
 Height AMSL: 614.9 m  
 HAAT: 612.9 m  
 Peak ERP: 1000 kW  
 Antenna: Omnidirectional  
 Elev Pattrn: Generic  
 Elec Tilt: 0.75

39.8 dBu contour:  

Azimuth	ERP	HAAT	Distance
0.0 deg	1000 kW	612.8 m	124.3 km
45.0	1000	609.2	124.0
90.0	1000	609.0	124.0
135.0	1000	612.3	124.2
180.0	1000	615.8	124.4
225.0	1000	615.7	124.4
270.0	1000	615.3	124.4
315.0	1000	613.5	124.3

ERP exceeds maximum

ERP: 1000 kW ERP maximum: 313 kW

\*\*Proposal service area extends beyond baseline plus 1.0%  
 Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1121.9 km

Distance to Mexican border: 726.6 km

\*\*Proposal is within coordination distance of FCC monitoring station  
 Conditions at FCC monitoring station: Livermore CA  
 Bearing: 201.2 degrees Distance: 61.4 km  
 ERP: 1000 kW HAAT: 616.3 m Field strength: 73.5 dBu, 4.7 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
 Bearing: 76.4 degrees Distance: 1413.4 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 BLANK0000024621 CP, scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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**Table 1 KMAX-TV OET Bulletin 69 Interference Study**  
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Desired:	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.5
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	199.9
Service area	41037.5	10,077,891	35328.7	Terrain-limited 6,276,197	IX-free, before 34643.8	IX-free, after 34372.0	Percent New IX 0.78 0.45
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL				31.8	588	31.8	588
KMAX-TV D24 DT APP				307.6	28,656	303.6	28,656
KAXT-CD D22 DC CP				35.8	19,115	35.8	19,115
KTFF-DT D23 DT CP				541.4	28,763	537.4	28,763
KRDT-CD D23 DC LIC				71.9	111	71.9	111
KRXI-TV D23 DT CP				4.0	0	4.0	0
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Interference to BLANK0000024621 CP, scenario 2							
Desired:	Call KQCA	Chan D23	Svc DT	Status CP	City, State STOCKTON, CA	File Number BLANK0000024621	Distance
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.5
	KTFF-DT	D23	DT	BL	PORTERVILLE, CA	DTVBL5512	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	199.9
Service area	41037.5	10,077,891	35328.7	Terrain-limited 6,276,197	IX-free, before 34659.7	IX-free, after 34391.9	Percent New IX 0.77 0.45
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL				31.8	588	31.8	588
KMAX-TV D24 DT APP				307.6	28,656	299.6	28,656
KAXT-CD D22 DC CP				35.8	19,115	35.8	19,115
KTFF-DT D23 DT BL				525.4	25,393	517.5	25,393
KRDT-CD D23 DC LIC				71.9	111	71.9	111
KRXI-TV D23 DT CP				4.0	0	4.0	0
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Interference to BLANK0000024621 CP, scenario 3							
Desired:	Call KQCA	Chan D23	Svc DT	Status CP	City, State STOCKTON, CA	File Number BLANK0000024621	Distance
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	BL	SACRAMENTO, CA	DTVBL52953	0.0
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.5
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	199.9
Service area	41037.5	10,077,891	35328.7	Terrain-limited 6,276,197	IX-free, before 34643.8	IX-free, after 34372.0	Percent New IX 0.78 0.45
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL				31.8	588	27.8	588
KMAX-TV D24 DT APP				307.6	28,656	299.6	28,656
KSPX-TV D22 DT BL				4.0	0	0.0	0
KAXT-CD D22 DC CP				35.8	19,115	35.8	19,115
KTFF-DT D23 DT CP				541.4	28,763	537.4	28,763
KRDT-CD D23 DC LIC				71.9	111	71.9	111
KRXI-TV D23 DT CP				4.0	0	4.0	0
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Interference to BLANK0000024621 CP, scenario 4							
Desired:	Call KQCA	Chan D23	Svc DT	Status CP	City, State STOCKTON, CA	File Number BLANK0000024621	Distance
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	BL	SACRAMENTO, CA	DTVBL52953	0.0
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.5
	KTFF-DT	D23	DT	BL	PORTERVILLE, CA	DTVBL5512	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8

**Table 1 KMAX-TV OET Bulletin 69 Interference Study**  
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KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	199.9
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
41037.5 10,077,891	35328.7	6,276,197	34659.7	6,230,990	34391.9	6,202,922
Undesired		Total IX		Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL	31.8	588	27.8	588	295.6	28,656
KMAX-TV D24 DT APP	307.6	28,656	0	0.0	0	0
KSPX-TV D22 DT BL	4.0	0	0.0	0	0	0
KAXT-CD D22 DC CP	35.8	19,115	35.8	19,115	35.8	19,115
KTFF-DT D23 DT BL	525.4	25,393	525.4	25,393	517.5	25,393
KRDT-CD D23 DC LIC	71.9	111	71.9	111	71.9	111
KRXI-TV D23 DT CP	4.0	0	4.0	0	4.0	0
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Interference to BLANK0000024621 CP, scenario 5						
Desired:	Call KQCA	Chan D23	Svc DT	Status CP	City, State STOCKTON, CA	File Number BLANK0000024621
Undesireds:	KMAX-TV D24 DT BL	31.8	588	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV D24 DT APP	307.6	28,656	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV D22 DT CP	4.0	0	SACRAMENTO, CA	BLANK0000027009	0.0
	KAXT-CD D22 DC BL	67.7	36,690	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
	KTFF-DT D23 DT CP	541.4	28,763	PORTERVILLE, CA	BLANK0000025094	321.5
	KRDT-CD D23 DC LIC	71.9	111	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV D23 DT CP	4.0	0	RENO, NV	BLANK0000027297	199.9
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
41037.5 10,077,891	35328.7	6,276,197	34612.0	6,210,045	34340.2	6,181,977
Undesired		Total IX		Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL	31.8	588	31.8	588	303.6	28,656
KMAX-TV D24 DT APP	307.6	28,656	0	0.0	36,690	36,690
KAXT-CD D22 DC BL	67.7	36,690	67.7	36,690	537.4	28,763
KTFF-DT D23 DT CP	541.4	28,763	541.4	28,763	0	0
KRDT-CD D23 DC LIC	71.9	111	71.9	111	71.9	111
KRXI-TV D23 DT CP	4.0	0	4.0	0	4.0	0
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Interference to BLANK0000024621 CP, scenario 6						
Desired:	Call KQCA	Chan D23	Svc DT	Status CP	City, State STOCKTON, CA	File Number BLANK0000024621
Undesireds:	KMAX-TV D24 DT BL	31.8	588	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV D24 DT APP	307.6	28,656	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV D22 DT CP	4.0	0	SACRAMENTO, CA	BLANK0000027009	0.0
	KAXT-CD D22 DC BL	67.7	36,690	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
	KTFF-DT D23 DT BL	525.4	25,393	PORTERVILLE, CA	DTVBL35512	321.5
	KRDT-CD D23 DC LIC	71.9	111	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV D23 DT CP	4.0	0	RENO, NV	BLANK0000027297	199.9
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
41037.5 10,077,891	35328.7	6,276,197	34627.9	6,213,415	34360.1	6,185,347
Undesired		Total IX		Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL	31.8	588	31.8	588	299.6	28,656
KMAX-TV D24 DT APP	307.6	28,656	0	0.0	36,690	36,690
KAXT-CD D22 DC BL	67.7	36,690	67.7	36,690	517.5	25,393
KTFF-DT D23 DT BL	525.4	25,393	525.4	25,393	0	0
KRDT-CD D23 DC LIC	71.9	111	71.9	111	71.9	111
KRXI-TV D23 DT CP	4.0	0	4.0	0	4.0	0
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Interference to BLANK0000024621 CP, scenario 7						
Desired:	Call KQCA	Chan D23	Svc DT	Status CP	City, State STOCKTON, CA	File Number BLANK0000024621
Undesireds:	KMAX-TV D24 DT BL	31.8	588	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV D24 DT APP	307.6	28,656	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV D22 DT BL	4.0	0	SACRAMENTO, CA	DTVBL52953	0.0
	KAXT-CD D22 DC BL	67.7	36,690	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
	KTFF-DT D23 DT CP	541.4	28,763	PORTERVILLE, CA	BLANK0000025094	321.5
	KRDT-CD D23 DC LIC	71.9	111	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV D23 DT CP	4.0	0	RENO, NV	BLANK0000027297	199.9
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
41037.5 10,077,891	35328.7	6,276,197	34612.0	6,210,045	34340.2	6,181,977
Undesired		Total IX		Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL	31.8	588	27.8	588	299.6	28,656
KMAX-TV D24 DT APP	307.6	28,656	0	0.0	36,690	36,690

**Table 1 KMAX-TV OET Bulletin 69 Interference Study**  
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KSPX-TV D22 DT BL	4.0	0	0.0	0	0.0	0
KAXT-CD D22 DC BL	67.7	36,690	67.7	36,690	67.7	36,690
KTFF-DT D23 DT CP	541.4	28,763	541.4	28,763	537.4	28,763
KRDT-CD D23 DC LIC	71.9	111	71.9	111	71.9	111
KRXI-TV D23 DT CP	4.0	0	4.0	0	4.0	0

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Interference to BLANK0000024621 CP, scenario 8

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	BL	SACRAMENTO, CA	DTVBL52953	0.0
	KAXT-CD	D22	DC	BL	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
	KTFF-DT	D23	DT	BL	PORTERVILLE, CA	DTVBL35512	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	199.9
Service area	41037.5	10,077,891	35328.7	6,276,197	34627.9	6,213,415	
						34360.1	6,185,347
							Percent New IX
							0.77 0.45
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL		31.8	588	27.8	588		
KMAX-TV D24 DT APP		307.6	28,656			295.6	28,656
KSPX-TV D22 DT BL		4.0	0	0.0	0	0.0	0
KAXT-CD D22 DC BL		67.7	36,690	67.7	36,690	67.7	36,690
KTFF-DT D23 DT BL		525.4	25,393	525.4	25,393	517.5	25,393
KRDT-CD D23 DC LIC		71.9	111	71.9	111	71.9	111
KRXI-TV D23 DT CP		4.0	0	4.0	0	4.0	0

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Interference to BLANK0000024621 CP, scenario 9

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.5
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9
Service area	41037.5	10,077,891	35328.7	6,276,197	34643.8	6,227,620	
						34372.0	6,199,552
							Percent New IX
							0.78 0.45
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL		31.8	588	31.8	588		
KMAX-TV D24 DT APP		307.6	28,656			303.6	28,656
KAXT-CD D22 DC CP		35.8	19,115	35.8	19,115	35.8	19,115
KTFF-DT D23 DT CP		541.4	28,763	541.4	28,763	537.4	28,763
KRDT-CD D23 DC LIC		71.9	111	71.9	111	71.9	111
KRXI-TV D23 DT BL		4.0	0	4.0	0	4.0	0

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Interference to BLANK0000024621 CP, scenario 10

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.5
	KTFF-DT	D23	DT	BL	PORTERVILLE, CA	DTVBL35512	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9
Service area	41037.5	10,077,891	35328.7	6,276,197	34659.7	6,230,990	
						34391.9	6,202,922
							Percent New IX
							0.77 0.45
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL		31.8	588	31.8	588		
KMAX-TV D24 DT APP		307.6	28,656			299.6	28,656
KAXT-CD D22 DC CP		35.8	19,115	35.8	19,115	35.8	19,115
KTFF-DT D23 DT BL		525.4	25,393	525.4	25,393	517.5	25,393
KRDT-CD D23 DC LIC		71.9	111	71.9	111	71.9	111
KRXI-TV D23 DT BL		4.0	0	4.0	0	4.0	0

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Interference to BLANK0000024621 CP, scenario 11

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Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	BL	SACRAMENTO, CA	DTVBL52953	0.0
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.5
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9
Service area	41037.5	10,077,891	35328.7	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
				6,276,197	34643.8	6,227,620	34372.0 6,199,552
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL				31.8	588	27.8	588
KMAX-TV D24 DT APP				307.6	28,656	299.6	28,656
KSPX-TV D22 DT BL				4.0	0	0.0	0
KAXT-CD D22 DC CP				35.8	19,115	35.8	19,115
KTFF-DT D23 DT CP				541.4	28,763	541.4	28,763
KRDT-CD D23 DC LIC				71.9	111	71.9	111
KRXI-TV D23 DT BL				4.0	0	4.0	0

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Interference to BLANK0000024621 CP, scenario 12							
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	BL	SACRAMENTO, CA	DTVBL52953	0.0
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.5
	KTFF-DT	D23	DT	BL	PORTERVILLE, CA	DTVBL35512	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9
Service area	41037.5	10,077,891	35328.7	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
				6,276,197	34659.7	6,230,990	34391.9 6,202,922
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL				31.8	588	27.8	588
KMAX-TV D24 DT APP				307.6	28,656	295.6	28,656
KSPX-TV D22 DT BL				4.0	0	0.0	0
KAXT-CD D22 DC CP				35.8	19,115	35.8	19,115
KTFF-DT D23 DT BL				525.4	25,393	525.4	25,393
KRDT-CD D23 DC LIC				71.9	111	71.9	111
KRXI-TV D23 DT BL				4.0	0	4.0	0

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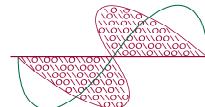
Interference to BLANK0000024621 CP, scenario 13							
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0
	KAXT-CD	D22	DC	BL	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9
Service area	41037.5	10,077,891	35328.7	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
				6,276,197	34612.0	6,210,045	34340.2 6,181,977
Undesired				Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL				31.8	588	31.8	588
KMAX-TV D24 DT APP				307.6	28,656	303.6	28,656
KAXT-CD D22 DC BL				67.7	36,690	67.7	36,690
KTFF-DT D23 DT CP				541.4	28,763	541.4	28,763
KRDT-CD D23 DC LIC				71.9	111	71.9	111
KRXI-TV D23 DT BL				4.0	0	4.0	0

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Interference to BLANK0000024621 CP, scenario 14							
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km

	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KSPX-TV	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0

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**Chesapeake RF Consultants, LLC**

Radiofrequency Consulting Engineers

Digital Television and Radio

KAXT-CD	D22	DC	BL	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
KFFF-DT	D23	DT	BL	PORTERVILLE, CA	DTVBL35512	321.5
KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9
Service area						
41037.5	10,077,891	35328.7	6,276,197	34627.9	6,213,415	34360.1 6,185,347
Undesired				Total IX	Unique IX, before	Unique IX, after
KMAX-TV	D24	DT	BL	31.8	588	31.8
KMAX-TV	D24	DT	APP	307.6	28,656	299.6
KAXT-CD	D22	DC	BL	67.7	36,690	67.7
KTFF-DT	D23	DT	BL	525.4	25,393	525.4
KRDT-CD	D23	DC	LIC	71.9	111	71.9
KRXI-TV	D23	DT	BL	4.0	0	4.0
-----						
Interference to BLANK0000024621 CP, scenario 15						
Desired:	Call	Chan	Svc	Status	City, State	File Number
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621
Undesireds:						Distance
KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
KSPX-TV	D22	DT	BL	SACRAMENTO, CA	DTVBL52953	0.0
KAXT-CD	D22	DC	BL	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5
KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9
Service area				Terrain-limited	IX-free, before	IX-free, after
41037.5	10,077,891	35328.7	6,276,197	34612.0	6,210,045	34340.2 6,181,977
Undesired				Total IX	Unique IX, before	Unique IX, after
KMAX-TV	D24	DT	BL	31.8	588	27.8
KMAX-TV	D24	DT	APP	307.6	28,656	299.6
KSPX-TV	D22	DT	BL	4.0	0	0.0
KAXT-CD	D22	DC	BL	67.7	36,690	67.7
KTFF-DT	D23	DT	CP	541.4	28,763	537.4
KRDT-CD	D23	DC	LIC	71.9	111	71.9
KRXI-TV	D23	DT	BL	4.0	0	4.0
-----						
Interference to BLANK0000024621 CP, scenario 16						
Desired:	Call	Chan	Svc	Status	City, State	File Number
	KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621
Undesireds:						Distance
KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
KSPX-TV	D22	DT	BL	SACRAMENTO, CA	DTVBL52953	0.0
KAXT-CD	D22	DC	BL	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
KTFF-DT	D23	DT	BL	PORTERVILLE, CA	DTVBL35512	321.5
KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9
Service area				Terrain-limited	IX-free, before	IX-free, after
41037.5	10,077,891	35328.7	6,276,197	34627.9	6,213,415	34360.1 6,185,347
Undesired				Total IX	Unique IX, before	Unique IX, after
KMAX-TV	D24	DT	BL	31.8	588	27.8
KMAX-TV	D24	DT	APP	307.6	28,656	295.6
KSPX-TV	D22	DT	BL	4.0	0	0.0
KAXT-CD	D22	DC	BL	67.7	36,690	67.7
KTFF-DT	D23	DT	BL	525.4	25,393	525.4
KRDT-CD	D23	DC	LIC	71.9	111	71.9
KRXI-TV	D23	DT	BL	4.0	0	4.0
-----						
Interference to DTVBL10242 BL, scenario 1						
**IX: 0.52% interference						
Desired:	Call	Chan	Svc	Status	City, State	File Number
	KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242
Undesireds:						Distance
KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
KSPX-TV	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0
KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.4
KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5
KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	199.9
Service area				Terrain-limited	IX-free, before	IX-free, after

Service area      Terrain-limited      IX-free, before      IX-free, after      Percent New IX

**Table 1 KMAX-TV OET Bulletin 69 Interference Study**  
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40339.4	9,931,380	34678.6	6,195,979	34077.4	6,156,474	33777.7	6,124,391	0.88	0.52
<b>Undesired</b>									
KMAX-TV D24 DT BL		0.0	Total IX	0	Unique IX, before	0.0	0	Unique IX, after	
KMAX-TV D24 DT APP	303.6			32,083				299.6	32,083
KSPX-TV D22 DT CP	3.9			0	3.9	0	3.9	0	
KAXT-CD D22 DC CP	19.9			16,181	19.9	16,181	19.9	16,181	
KTFF-DT D23 DT CP	509.5			23,213	509.5	23,213	505.5	23,213	
KRDT-CD D23 DC LIC	67.9			111	67.9	111	67.9	111	

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Interference to DTVBL10242 BL, scenario 2

\*\*IX: 0.52% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242	
<b>Undesireds:</b>							
KMAX-TV D24 DT BL	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km	
KMAX-TV D24 DT APP	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9	
KSPX-TV D22 DT CP	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0	
KAXT-CD D22 DC CP	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.4	
KTFF-DT D23 DT BL	D23	DT	BL	PORTERVILLE, CA	DTVBL35512	321.4	
KRDT-CD D23 DC LIC	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8	
KRXI-TV D23 DT CP	D23	DT	CP	RENO, NV	BLANK0000027297	199.9	
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
40339.4	9,931,380	34678.6		6,195,979	34077.4	6,156,121	33781.7 6,124,038
<b>Undesired</b>							
KMAX-TV D24 DT BL		0.0	Total IX	0	Unique IX, before	0.0	0
KMAX-TV D24 DT APP	303.6			32,083		295.6	32,083
KSPX-TV D22 DT CP	3.9			0	3.9	0	
KAXT-CD D22 DC CP	19.9			16,181	19.9	16,181	
KTFF-DT D23 DT BL	509.5			23,566	509.5	23,566	
KRDT-CD D23 DC LIC	67.9			111	67.9	111	

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Interference to DTVBL10242 BL, scenario 3

\*\*IX: 0.52% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242	
<b>Undesireds:</b>							
KMAX-TV D24 DT BL	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km	
KMAX-TV D24 DT APP	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9	
KAXT-CD D22 DC CP	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.4	
KTFF-DT D23 DT CP	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5	
KRDT-CD D23 DC LIC	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8	
KRXI-TV D23 DT CP	D23	DT	CP	RENO, NV	BLANK0000027297	199.9	
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
40339.4	9,931,380	34678.6		6,195,979	34081.3	6,156,474	33781.7 6,124,038
<b>Undesired</b>							
KMAX-TV D24 DT BL		0.0	Total IX	0	Unique IX, before	0.0	0
KMAX-TV D24 DT APP	303.6			32,083		299.6	32,083
KAXT-CD D22 DC CP	19.9			16,181	19.9	16,181	
KTFF-DT D23 DT CP	509.5			23,213	509.5	23,213	
KRDT-CD D23 DC LIC	67.9			111	67.9	111	

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Interference to DTVBL10242 BL, scenario 4

\*\*IX: 0.52% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242	
<b>Undesireds:</b>							
KMAX-TV D24 DT BL	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km	
KMAX-TV D24 DT APP	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9	
KAXT-CD D22 DC CP	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000027887	91.4	
KTFF-DT D23 DT BL	D23	DT	BL	PORTERVILLE, CA	DTVBL35512	321.4	
KRDT-CD D23 DC LIC	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8	
KRXI-TV D23 DT CP	D23	DT	CP	RENO, NV	BLANK0000027297	199.9	
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
40339.4	9,931,380	34678.6		6,195,979	34081.3	6,156,121	33785.7 6,124,038
<b>Undesired</b>							
KMAX-TV D24 DT BL		0.0	Total IX	0	Unique IX, before	0.0	0
KMAX-TV D24 DT APP	303.6			32,083		295.6	32,083
KAXT-CD D22 DC CP	19.9			16,181	19.9	16,181	
KTFF-DT D23 DT BL	509.5			23,566	509.5	23,566	
KRDT-CD D23 DC LIC	67.9			111	67.9	111	

**Table 1 KMAX-TV OET Bulletin 69 Interference Study**  
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Interference to DTVBL10242 BL, scenario 5  
\*\*IX: 0.52% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0
	KAXT-CD	D22	DC	BL	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	199.9
Service area		Terrain-limited		IX-free, before		IX-free, after	
40339.4	9,931,380	34678.6	6,195,979	34057.5	6,138,899	33757.9	6,106,816
Percent New IX							
						0.88	0.52
Undesired							
		Total	IX	Unique IX, before		Unique IX, after	
KMAX-TV	D24	DT	BL	0.0	0	0.0	0
KMAX-TV	D24	DT	APP	303.6	32,083	299.6	32,083
KSPX-TV	D22	DT	CP	3.9	0	3.9	0
KAXT-CD	D22	DC	BL	39.8	33,756	39.8	33,756
KTFF-DT	D23	DT	BL	509.5	23,213	509.5	23,213
KRDT-CD	D23	DC	LIC	67.9	111	67.9	111

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Interference to DTVBL10242 BL, scenario 6  
\*\*IX: 0.52% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	CP	SACRAMENTO, CA	BLANK0000027009	0.0
	KAXT-CD	D22	DC	BL	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
	KTFF-DT	D23	DT	BL	PORTERVILLE, CA	DTVBL5512	321.4
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
	KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	199.9
Service area		Terrain-limited		IX-free, before		IX-free, after	
40339.4	9,931,380	34678.6	6,195,979	34057.5	6,138,546	33761.9	6,106,463
Percent New IX							
						0.87	0.52
Undesired							
		Total	IX	Unique IX, before		Unique IX, after	
KMAX-TV	D24	DT	BL	0.0	0	0.0	0
KMAX-TV	D24	DT	APP	303.6	32,083	295.6	32,083
KSPX-TV	D22	DT	CP	3.9	0	3.9	0
KAXT-CD	D22	DC	BL	39.8	33,756	39.8	33,756
KTFF-DT	D23	DT	BL	509.5	23,566	501.5	23,566
KRDT-CD	D23	DC	LIC	67.9	111	67.9	111

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Interference to DTVBL10242 BL, scenario 7  
\*\*IX: 0.52% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
	KSPX-TV	D22	DT	CP	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
	KAXT-CD	D22	DC	BL	SAN FRANCISO, SAN JO, CA	BLANK0000025094	321.5
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLDTA20110620AEA	279.8
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLANK0000027297	199.9
	KRXI-TV	D23	DT	CP	RENO, NV		
Service area		Terrain-limited		IX-free, before		IX-free, after	
40339.4	9,931,380	34678.6	6,195,979	34061.5	6,138,899	33761.8	6,106,816
Percent New IX							
						0.88	0.52
Undesired							
		Total	IX	Unique IX, before		Unique IX, after	
KMAX-TV	D24	DT	BL	0.0	0	0.0	0
KMAX-TV	D24	DT	APP	303.6	32,083	299.6	32,083
KAXT-CD	D22	DT	BL	39.8	33,756	39.8	33,756
KTFF-DT	D23	DT	CP	509.5	23,213	509.5	23,213
KRDT-CD	D23	DC	LIC	67.9	111	67.9	111

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Interference to DTVBL10242 BL, scenario 8  
\*\*IX: 0.52% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242	
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	0.0 km

**Table 1 KMAX-TV OET Bulletin 69 Interference Study**  
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KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	2.9
KAXT-CD	D22	DC	BL	SAN FRANCISO, SAN JO, CA	DTVBL37689	91.5
KTFF-DT	D23	DT	BL	PORTERVILLE, CA	DTVBL35512	321.4
KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8
KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	199.9
Service area						
40339.4	9,931,380	34678.6	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
			6,195,979	34061.5	6,138,546	0.87 0.52
Undesired			Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL		0.0	0	0.0	0	
KMAX-TV D24 DT APP		303.6	32,083		295.6	32,083
KAXT-CD D22 DC BL		39.8	33,756	39.8	39.8	33,756
KTFF-DT D23 DT BL		509.5	23,566	509.5	23,566	501.5 23,566
KRDT-CD D23 DC LIC		67.9	111	67.9	111	67.9 111
-----						
Interference to BPCDT20111004AAN CP, scenario 1						
Desired:	Call KOVR	Chan D25	Svc DT	Status CP	City, State STOCKTON, CA	File Number BPCDT20111004AAN
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW
	KGET-TV	D25	DT	LIC	BAKERSFIELD, CA	BLANK0000007394
	KQET	D25	DT	LIC	WATSONVILLE, CA	BLEDT20090624ABV
Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
48421.9	10,793,931	41401.4	7,191,827	40347.3	6,733,127	40570.8 6,743,495 -0.55 -0.15
Undesired			Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL		231.4	10,691	223.5	10,368	
KMAX-TV D24 DT APP		0.0	0		0.0	0
KGET-TV D25 DT LIC		12.0	80	4.0	7	4.0 7
KQET D25 DT LIC		826.7	448,325	810.8	447,929	818.7 448,252
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Interference to BLCDT20110922ABJ LIC, scenario 1						
Desired:	Call KOVR	Chan D25	Svc DT	Status LIC	City, State STOCKTON, CA	File Number BLCDT20110922ABJ
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW
	KGET-TV	D25	DT	LIC	BAKERSFIELD, CA	BLANK0000007394
	KQET	D25	DT	LIC	WATSONVILLE, CA	BLEDT20090624ABV
Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
47333.4	10,759,811	40445.2	7,100,710	39399.0	6,664,195	39626.5 6,674,563 -0.58 -0.16
Undesired			Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL		247.2	10,710	239.4	10,387	
KMAX-TV D24 DT APP		15.9	19		11.9	19
KGET-TV D25 DT LIC		12.0	81	8.0	8	8.0 8
KQET D25 DT LIC		798.8	426,120	787.0	425,724	790.8 426,047
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Interference to BLEDT20090624ABV LIC, scenario 1						
Desired:	Call KQET	Chan D25	Svc DT	Status LIC	City, State WATSONVILLE, CA	File Number BLEDT20090624ABV
Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW
	KGET-TV	D25	DT	LIC	BAKERSFIELD, CA	BLANK0000007394
	KOVR	D25	DT	CP	STOCKTON, CA	BPCDT20111004AAN
	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS
Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24197.6	2,981,040	17469.1	2,076,157	17125.9	1,875,354	17133.9 1,875,354 -0.05 0.00
Undesired			Total IX	Unique IX, before	Unique IX, after	
KMAX-TV D24 DT BL		19.9	0	8.0	0	
KMAX-TV D24 DT APP		11.9	0		0.0	0
KGET-TV D25 DT LIC		51.9	5	19.9	0	19.9 0
KOVR D25 DT CP		315.3	200,803	271.3	200,798	271.3 200,798
KTFK-DT D26 DT LIC		8.0	0	0.0	0	0.0 0
-----						
Interference to BLEDT20090624ABV LIC, scenario 2						
Desired:	Call KQET	Chan D25	Svc DT	Status LIC	City, State WATSONVILLE, CA	File Number BLEDT20090624ABV

**Table 1 KMAX-TV OET Bulletin 69 Interference Study**  
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Undesireds:	KMAX-TV	D24	DT	BL	SACRAMENTO, CA	DTVBL51499	167.7 km
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	164.9
	KGET-TV	D25	DT	LIC	BAKERSFIELD, CA	BLANK000007394	288.1
	KOVR	D25	DT	LIC	STOCKTON, CA	BLCDT20110922ABJ	164.9
	KTFK-DT	D26	DT	LIC	STOCKTON, CA	BLCDT20110819ABS	164.9

Service area	Terrain-limited			IX-free, before		IX-free, after	Percent New IX
24197.6 2,981,040	17469.1	2,076,157		17137.9	1,875,354	17145.9	1,875,354

Undesired	Total IX	Unique IX, before		Unique IX, after		
KMAX-TV D24 DT BL	19.9	0	8.0	0	0.0	
KMAX-TV D24 DT APP	11.9	0	0	0	0	
KGET-TV D25 DT LIC	51.9	5	19.9	0	19.9	0
KOVR D25 DT LIC	303.3	200,803	259.4	200,798	259.4	200,798
KTFK-DT D26 DT LIC	8.0	0	0.0	0	0.0	0

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Interference to proposal, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	
Undesireds:	KQCA	D23	DT	CP	STOCKTON, CA	BLANK000024621	2.9 km
	KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	202.6
	KOVR	D25	DT	CP	STOCKTON, CA	BPCDT20111004AAN	0.0
	KQET	D25	DT	LIC	WATSONVILLE, CA	BLEDT20090624ABV	164.9
Service area	Terrain-limited			IX-free		Percent IX	
48521.8 10,795,319	41541.0	7,210,305		41409.3	7,202,158	0.32	0.11
Undesired	Total IX			Unique IX		Prcnt Unique IX	
KQCA D23 DT CP	119.8	8,089		119.8	8,089	0.29	0.11
KQET D25 DT LIC	12.0	58		12.0	58	0.03	0.00

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Interference to proposal, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	KMAX-TV prop at 1000kW	
Undesireds:	KQCA	D23	DT	BL	STOCKTON, CA	DTVBL10242	2.9 km
	KRXI-TV	D23	DT	CP	RENO, NV	BLANK0000027297	202.6
	KOVR	D25	DT	CP	STOCKTON, CA	BPCDT20111004AAN	0.0
	KQET	D25	DT	LIC	WATSONVILLE, CA	BLEDT20090624ABV	164.9
Service area	Terrain-limited			IX-free		Percent IX	
48521.8 10,795,319	41541.0	7,210,305		41409.2	7,202,158	0.32	0.11
Undesired	Total IX			Unique IX		Prcnt Unique IX	
KQCA D23 DT BL	119.8	8,089		119.8	8,089	0.29	0.11
KQET D25 DT LIC	12.0	58		12.0	58	0.03	0.00

Channel and Facility Information	Section	Question	Response
	Proposed Community of License	Facility ID	51499
		State	California
		City	SACRAMENTO
		DTV Channel	24
	Facility Type	Facility Type	Commercial
		Station Type	Main
	Zone	Zone	2

Antenna Location Data	Section	Question	Response
	Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
		ASR Number	1011404
	Coordinates (NAD83)	Latitude	38° 14' 24.0" N+
		Longitude	121° 30' 07.0" W-
		Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
		Overall Structure Height	624.5 meters
		Support Structure Height	583.7 meters
		Ground Elevation (AMSL)	0.0 meters
	Antenna Data	Height of Radiation Center Above Ground Level	614.9 meters
		Height of Radiation Center Above Average Terrain	612.9 meters
		Height of Radiation Center Above Mean Sea Level	614.9 meters
		Effective Radiated Power	1000 kW

Antenna Technical Data	Section	Question	Response
Antenna Type		Antenna Type	Non-Directional
		Do you have an Antenna ID?	
		Antenna ID	
Antenna Manufacturer and Model		Manufacturer:	DIE
		Model	TFU-28GTH/VP-R O4A
		Rotation	
		Electrical Beam Tilt	0.75
		Mechanical Beam Tilt	Not Applicable
		toward azimuth	
		Polarization	Elliptical
DTV and DTS: Elevation 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	

<b>Construction Permit Certifications</b>	<b>Section</b>	<b>Question</b>	<b>Response</b>
	<b>Post-Incentive Auction Expedited Processing</b>	<p>It will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice.</p> <p>It will operate post-incentive auction facilities that do not expand the noise-limited service contour in any direction beyond that established by the post-incentive auction channel reassignment public notice.</p> <p>It will operate post-incentive auction facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the post-incentive auction channel reassignment public notice.</p> <p>The antenna structure to be used by this facility has been registered by the Commission and will not require re-registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely affect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.</p>	Yes  No  Yes  Yes
	<b>Environmental Effect</b>	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See Section 1.1306 of 47 C.F.R.)	No
	<b>Broadcast Facility</b>	The proposed facility complies with the applicable engineering standards and assignment requirements of 47 C.F.R. Sections 73.616, 73.622(i), 73.623(e), 73.625, 73.1030, and 73.1125.	Yes