

Special Displacement Window Application

Amendment to file# 0000030068, to resolve MX group #52 in DA 18-1108¹ via Engineering Settlement and minor engineering amendment. Displacement proposal 0000030068 is amended herein to reduce proposed ERP and supply an interference acceptance agreement, where KFMS-LD is accepting 3.71% interference from K31ND-D.

MX52	0000051634	KFMS-LD	182091	31	KEYES	CA	JOSEPH FIORI
MX52	0000030068	K31ND-D	33744	31	OROVILLE	CA	K4 MEDIA HOLDINGS LLC

LPTV or Translator Facility: K42HL-D Facility ID 33744 Oroville, CA
Licensed Ch. 42 File# BLDTT-20091008ABY
Operating on Ch. 31 as K31ND-D pursuant to STA
File# 0000030069 as extended

Nature of Displacement: Within 600 MHz wireless spectrum

Proposed Facility: Ch. 31 0.68 kW ERP directional (azimuth pattern in Figure 1)

Modification Compliance: 0.0 km from licensed site
Contour comparison in Figure 2
TVStudy Analysis report in Table 1
Study cell size: 1.00 km Profile point spacing: 0.10 km
KFMS-LD agrees to accept 3.71% interference

Contingent Application Rule: No waiver required, not dependent on spectrum to be vacated

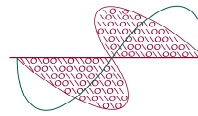
RF Exposure: The calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 0.2 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 15 percent relative field at downward angles (from antenna elevation pattern data). This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant

¹"Incentive Auction Task Force and Media Bureau Announce Settlement Opportunity for Mutually Exclusive Displacement Applications Filed During the Special Displacement Window," Public Notice, DA 18-1108, released October 30, 2018.

Displacement and Technical Information

Maxair Media, LLC

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Chesapeake RF Consultants, LLC

Radiofrequency Consulting Engineers
Digital Television and Radio

from responsibility for taking any corrective action in the areas
where the proposal's contribution is less than five percent.

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E.
207 Old Dominion Road

December 28, 2018
Yorktown, VA 23692

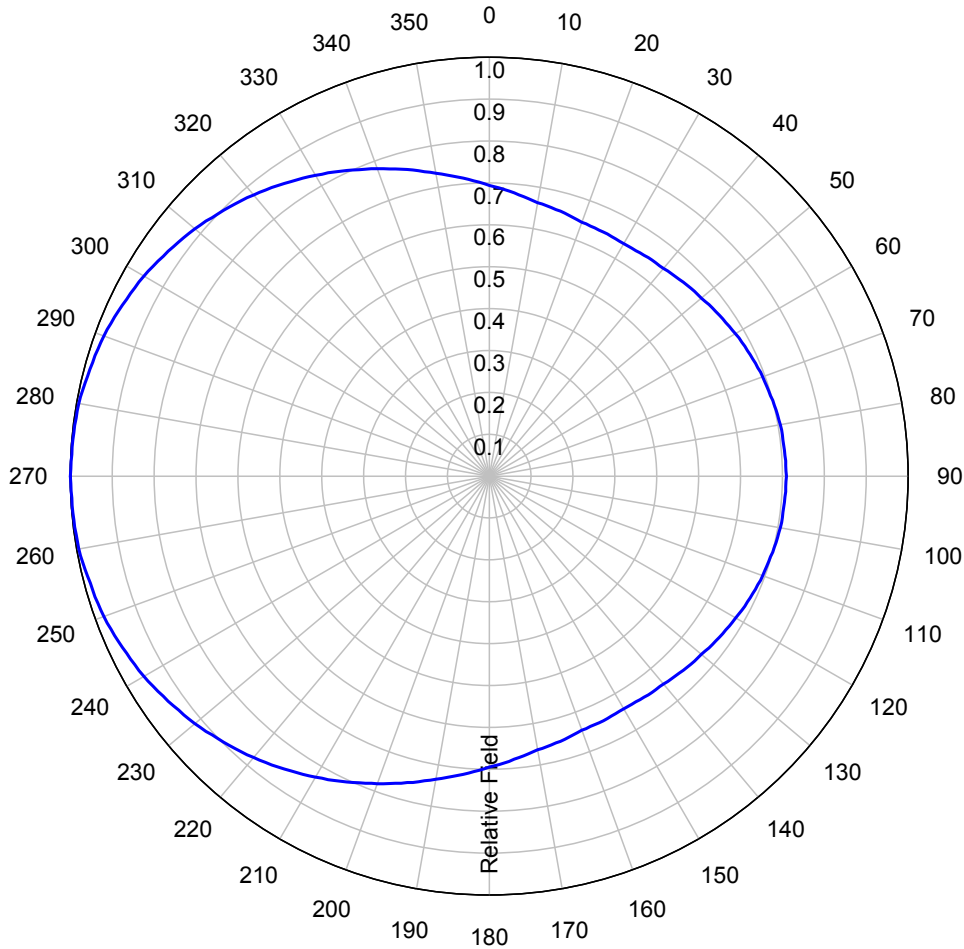
703-650-9600

AZIMUTH PATTERN

Type: AL-OC
 Directivity: Numeric 1.62 dBd 2.10
 Peak(s) at: _____

Channel: 31
 Location: _____
 Polarization: Horizontal

Note: Pattern shape and directivity may vary with channel and mouting configuration.



Preliminary, subject to final design and review.

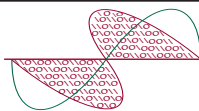
ELECTRONICS RESEARCH, INC. **ERI**



Figure 1
Antenna Azimuthal Pattern
K31ND-D Oroville, CA
Facility ID 33744
Ch. 31 (digital) 0.68 kW

prepared for
Maxair Media, LLC

December, 2018



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

Figure 2
Coverage Contour Comparison
K31ND-D Oroville, CA
Facility ID 33744
Ch. 31 (digital) 0.68 kW

prepared for
Maxair Media, LLC

December, 2018

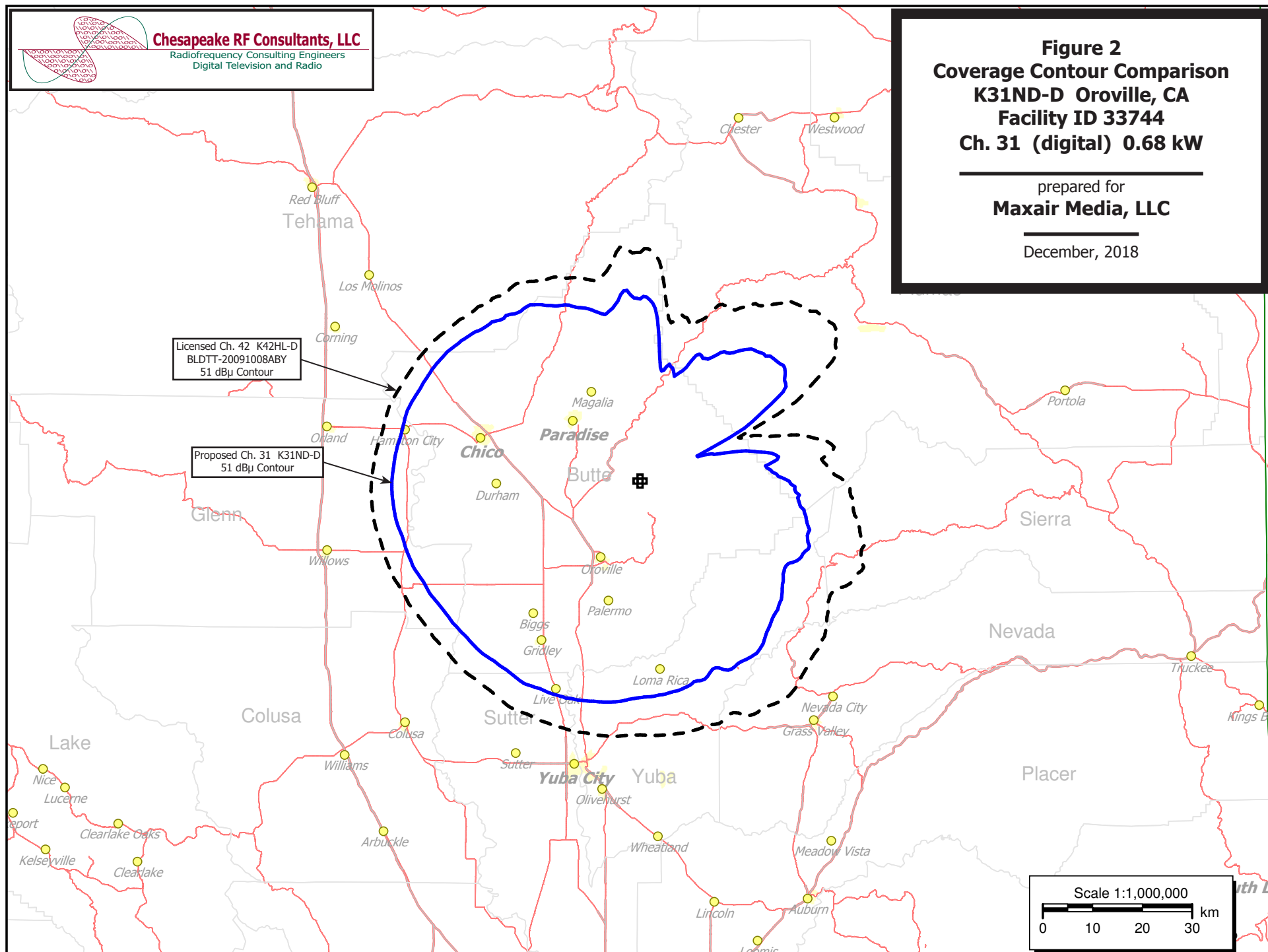


Table 1 K42HL-D TVStudy Analysis of Proposal (page 1 of 4)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K42HL-D APP-31 0.68kW_prop, Model: Longley-Rice
Start: 2018.12.26 15:39:59

Study created: 2018.12.26 15:39:59

Study build station data: LMS TV 2018-12-25

Proposal: K42HL-D D31 LD APP OROVILLE, CA
File number: K42HL-D APP-31 0.68kW
Facility ID: 33744
Station data: User record
Record ID: 2441
Country: U.S.

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

Search options:
Baseline record excluded if station has CP
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KXVU-LP	N17-	TX	LIC	CHICO, CA	BLTTL20060303AAJ	40.6 km
No	KUCO-LP	N27+	TX	LIC	CHICO, CA	BLTTL20050405AAP	40.6
Yes	KKTF-LD	D30	LD	LIC	CHICO, CA	BLDTL20100716AAP	40.6
No	K30PZ-D	D30	LD	LIC	LITCHFIELD, CA	BLANK0000063161	110.6
No	K30MI-D	D30	LD	LIC	REDDING, CA	BLDTL20121205ADS	143.3
No	KAHC-LD	D30	LD	CP	SACRAMENTO, CA	BLANK0000059635	111.5
No	KQED	D30	DT	LIC	SAN FRANCISCO, CA	BLANK0000040845	227.5
No	K30HY-D	D30	LD	LIC	VERDI/MOGUL, NV	BLDTT20081006AFE	130.7
No	KEUV-LP	D31	LD	CP	EUREKA, CA	BLANK0000010638	244.5
No	KEUV-LP	N31z	TX	LIC	EUREKA, CA	BLTTL20050729AMX	244.5
No	KVHF-LD	D31	LD	APP	FRESNO, CA	BLANK0000054276	336.7
No	KTFF-LD	D31	LD	APP	FRESNO, CA	BLANK0000054900	336.8
Yes	KFMS-LD	D31	LD	APP	KEYES, CA	BLANK0000051634	111.5
No	K31MN-D	D31	LD	CP	MODESTO, CA	BDCCDTT20120726ABW	225.7
Yes	KTVU	D31	DT	CP	OAKLAND, CA	BLANK0000059954	227.5
Yes	KMUM-CD	D31	DC	LIC	SACRAMENTO, CA	BLDTA20131219BOH	104.9
No	K38JP-D	D31	LD	CP	SALINAS, CA	BLANK0000051906	346.3
Yes	KBCW	D31	LD	APP	SAN FRANCISCO, CA	BDRTCDT20090630AEG	149.8
No	K31IE-D	D31	LD	LIC	SUSANVILLE, ETC, CA	BLDTT20101207AFO	129.1
No	K31GK-D	D31	LD	LIC	UKIAH, CA	BLDTL20120509AFQ	152.2
No	K39KM-D	D31	LD	CP	WEED, CA	BLANK0000054654	213.4
No	K39KM-D	D31	LD	LIC	WEED, CA	BLANK0000063770	213.4
No	K31LJ-D	D31	LD	CP	CARSON CITY, NV	BNPDTL20090825BND	158.0
No	K31FU-D	D31	LD	LIC	GOLCONDA, NV	BLDTT20120203ACA	376.9
No	K31BM-D	D31	LD	LIC	SILVER SPRINGS, NV	BLDTT20100621ABA	184.6
No	K31KH-D	D31	LD	CP	STATELINE, NV	BDFCDTL20090824ABT	150.7
No	K31KH-D	D31	LD	LIC	STATELINE, NV	BLDTL20110418ABC	151.9
No	K31GP-D	D31-	LD	LIC	BROOKINGS, ETC., OR	BLANK0000021714	356.9
No	K31GP-D	N31-	TX	LIC	BROOKINGS, ETC., OR	BLTT20051214ACA	356.9
No	K31OQ-D	D31	LD	LIC	Grants Pass, OR	BLANK0000063274	342.7
No	K31NH-D	D31	LD	LIC	KLAMATH FALLS, OR	BLANK0000063191	272.4
No	K31KZ-D	D31	LD	LIC	LAKEVIEW, OR	BLDTL20120604AEA	297.0
No	K32MJ-D	D32	LD	LIC	LITCHFIELD, CA	BLANK0000063162	110.6
No	K32LM-D	D32	LD	CP	REDDING, CA	BLANK0000004699	86.1
No	KSTV-LP	D32-	LD	CP	SACRAMENTO, CA	BLANK0000036383	115.8
No	KSTV-LP	N32-	TX	LIC	SACRAMENTO, CA	BLTTL20070716ADI	115.8
No	KCNS	D32	DT	CP	SAN FRANCISCO, CA	BLANK0000034679	227.5
No	K32GW-D	D32	LD	LIC	CARSON CITY, NV	BLDTT20070529ADO	157.0
No	K38FQ	N38+	TX	LIC	ANDERSON/CENTRL VAL., CA	BLTTL20000710AAX	143.2
No	K38FW	N38+	TX	LIC	STATELINE, NV	BLTTL20030205AAP	151.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31

Table 1 K42HL-D TVStudy Analysis of Proposal
(page 2 of 4)



Mask: Full Service
Latitude: 39 39 4.00 N (NAD83)
Longitude: 121 27 47.00 W
Height AMSL: 944.0 m
HAAT: 0.0 m
Peak ERP: 0.680 kW
Antenna: ERI-AL8OC-31-H (ID 1002077) 270.0 deg
Elev Pattern: Generic
Elec Tilt: 1.75

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.328 kW	346.6 m	37.0 km
45.0	0.291	338.8	36.1
90.0	0.342	195.5	30.7
135.0	0.291	413.8	38.5
180.0	0.328	606.7	44.1
225.0	0.547	632.4	47.7
270.0	0.680	728.8	50.8
315.0	0.547	486.3	44.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 469 m

Distance to Canadian border: 967.2 km

Distance to Mexican border: 862.8 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 186.8 degrees Distance: 215.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 82.5 degrees Distance: 1381.4 km

Study cell size: 1.00 km

Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLDTL20100716AAP LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKTF-LD	D30	LD	LIC	CHICO, CA	BLDTL20100716AAP	
Undesireds:	K42HL-D	D31	LD	APP	OROVILLE, CA	K42HL-D APP-31 0.68kW	40.6 km
	K30MI-D	D30	LD	LIC	REDDING, CA	BLDTL20121205ADS	103.1
	KAHC-LD	D30	LD	CP	SACRAMENTO, CA	BLANK0000059635	147.5
	KQED	D30	DT	LIC	SAN FRANCISCO, CA	BLANK0000040845	253.6
	K30JS-D	D30	LD	LIC	YREKA, CA	BLDTT20150211AAX	198.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
10140.3	291,888	9345.0	261,169	9183.7	256,874	9182.8 256,870	0.01 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K42HL-D	D31	LD	APP	1.0	4	1.0	4
K30MI-D	D30	LD	LIC	116.3	965	95.3	875
KAHC-LD	D30	LD	CP	40.9	3,420	21.9	2,807
KQED	D30	DT	LIC	37.0	523	17.0	0

Interference to BLANK0000051634 APP scenario 1

****MX: 3.71% interference caused**

-----KFMS-LD agrees to accept 3.71% interference-----

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KFMS-LD	D31	LD	APP	KEYES, CA	BLANK0000051634	
Undesireds:	K42HL-D	D31	LD	APP	OROVILLE, CA	K42HL-D APP-31 0.68kW	111.5 km

Table 1 K42HL-D TV Study Analysis of Proposal
(page 3 of 4)



KEUV-LP	D31	LD	CP	EUREKA, CA	BLANK0000010638	314.6
KTVU	D31	DT	CP	OAKLAND, CA	BLANK0000059954	130.7
KBCW	D31	LD	APP	SAN FRANCISCO, CA	BDRTCDT20090630AEG	61.0
K39KM-D	D31	LD	CP	WEED, CA	BLANK0000054654	319.5
K31KH-D	D31	LD	CP	STATELINE, NV	BDFCDTL20090824ABT	135.1
KSTV-LP	D32-	LD	CP	SACRAMENTO, CA	BLANK0000036383	33.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2949.3 1,192,035	2931.3 1,187,521	2899.4 1,180,117	2851.4 1,136,314	1.65 3.71

Undesired	Total IX	Unique IX, before	Unique IX, after
K42HL-D D31 LD APP	50.9 43,899	47.9 43,803	
KTVU D31 DT CP	31.0 4,821	27.0 4,324	25.0 4,283
KBCW D31 LD APP	3.0 497	0.0 0	0.0 0
KSTV-LP D32- LD CP	3.0 2,670	1.0 2,583	1.0 2,583

Interference to BLANK0000051634 APP scenario 2
**MX: 3.70% interference caused

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KFMS-LD	D31	LD	APP	KEYES, CA	BLANK0000051634	
Undesireds: K42HL-D	D31	LD	APP	OROVILLE, CA	K42HL-D APP-31 0.68kW	111.5 km
KEUV-LP	D31	LD	CP	EUREKA, CA	BLANK0000010638	314.6
KTVU	D31	DT	CP	OAKLAND, CA	BLANK0000059954	130.7
KBCW	D31	LD	APP	SAN FRANCISCO, CA	BDRTCDT20090630AEG	61.0
K39KM-D	D31	LD	CP	WEED, CA	BLANK0000054654	319.5
K31KH-D	D31	LD	CP	STATELINE, NV	BDFCDTL20090824ABT	135.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2949.3 1,192,035	2931.3 1,187,521	2900.4 1,182,700	2852.4 1,138,897	1.65 3.70

Undesired	Total IX	Unique IX, before	Unique IX, after
K42HL-D D31 LD APP	50.9 43,899	47.9 43,803	
KTVU D31 DT CP	31.0 4,821	28.0 4,324	26.0 4,283
KBCW D31 LD APP	3.0 497	0.0 0	0.0 0

Interference to BLANK0000059954 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KTVU	D31	DT	CP	OAKLAND, CA	BLANK0000059954	
Undesireds: K42HL-D	D31	LD	APP	OROVILLE, CA	K42HL-D APP-31 0.68kW	227.5 km
KION-TV	D32	DT	APP	MONTEREY, CA	BLANK0000035685	154.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37377.5 8,298,887	32210.8 7,213,470	32022.0 7,210,267	31495.4 7,177,146	1.64 0.46

Undesired	Total IX	Unique IX, before	Unique IX, after
K42HL-D D31 LD APP	526.6 33,121	526.6 33,121	
KION-TV D32 DT APP	188.7 3,203	188.7 3,203	188.7 3,203

Interference to BLANK0000059954 CP scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KTVU	D31	DT	CP	OAKLAND, CA	BLANK0000059954	
Undesireds: K42HL-D	D31	LD	APP	OROVILLE, CA	K42HL-D APP-31 0.68kW	227.5 km
KION-TV	D32	DT	LIC	MONTEREY, CA	BLCDDT20030604ACO	154.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37377.5 8,298,887	32210.8 7,213,470	32078.0 7,212,987	31551.3 7,179,866	1.64 0.46

Undesired	Total IX	Unique IX, before	Unique IX, after
K42HL-D D31 LD APP	526.6 33,121	526.6 33,121	
KION-TV D32 DT LIC	132.8 483	132.8 483	132.8 483

Interference to BLDTA20131219BOH LIC scenario 1

Table 1 K42HL-D TVStudy Analysis of Proposal
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Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMUM-CD	D31	DC	LIC	SACRAMENTO, CA	BLDTA20131219BOH	
Undesireds:	K42HL-D	D31	LD	APP	OROVILLE, CA	K42HL-D APP-31 0.68kW	104.9 km
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4273.6 1,818,256		4241.6 1,813,195		4241.6 1,813,195		4232.7 1,813,070	0.21 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
K42HL-D D31 LD APP		9.0		125		9.0 125	

Interference to BDRTCDT20090630AEG APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KBCW	D31	LD	APP	SAN FRANCISCO, CA	BDRTCDT20090630AEG	
Undesireds:	K42HL-D	D31	LD	APP	OROVILLE, CA	K42HL-D APP-31 0.68kW	149.8 km
	KQED	D30	DT	LIC	SAN FRANCISCO, CA	BLANK0000040845	77.7
	KEUV-LP	D31	LD	CP	EUREKA, CA	BLANK0000010638	304.4
	KFMS-LD	D31	LD	APP	KEYES, CA	BLANK0000051634	61.0
	K31MN-D	D31	LD	CP	MODESTO, CA	BDCCDTT20120726ABW	125.9
	KTVU	D31	DT	CP	OAKLAND, CA	BLANK0000059954	77.7
	K31KH-D	D31	LD	CP	STATELINE, NV	BDFCDTL20090824ABT	195.2
	KSTV-LP	D32-	LD	CP	SACRAMENTO, CA	BLANK0000036383	91.7
	KCNS	D32	DT	CP	SAN FRANCISCO, CA	BLANK0000034679	77.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3522.8 580,609		2664.5 341,282		2293.9 300,630		2291.9 300,630	0.09 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K42HL-D D31 LD APP		5.0		0		2.0 0	
KQED D30 DT LIC		22.2		967		0.0 0	
KFMS-LD D31 LD APP		3.0		16		0.0 0	
K31MN-D D31 LD CP		9.0		70		4.0 54	
KTVU D31 DT CP		364.6		40,582		332.3 39,615	
KCNS D32 DT CP		29.2		967		0.0 0	

Interference to proposal scenario 1
**MX: 2.74% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42HL-D	D31	LD	APP	OROVILLE, CA	K42HL-D APP-31 0.68kW	
Undesireds:	KKTF-LD	D30	LD	LIC	CHICO, CA	BLDTL20100716AAP	40.6 km
	KEUV-LP	D31	LD	CP	EUREKA, CA	BLANK0000010638	244.5
	KFMS-LD	D31	LD	APP	KEYES, CA	BLANK0000051634	111.5
	KTVU	D31	DT	CP	OAKLAND, CA	BLANK0000059954	227.5
	K39KM-D	D31	LD	CP	WEED, CA	BLANK0000054654	213.4
	K31KH-D	D31	LD	CP	STATELINE, NV	BDFCDTL20090824ABT	150.7
	KSTV-LP	D32-	LD	CP	SACRAMENTO, CA	BLANK0000036383	115.8
Service area		Terrain-limited		IX-free		Percent IX	
5222.6 240,994		4824.0 229,376		4650.4 223,092		3.60 2.74	
Undesired		Total IX		Unique IX		Prct Unique IX	
KKTF-LD D30 LD LIC		39.1		3,050		2,702 0.48 1.18	
KFMS-LD D31 LD APP		145.6		3,582		130.5 3,191 2.71 1.39	
KTVU D31 DT CP		10.0		43		3.0 0 0.06 0.00	