

INTERFERENCE ANALYSIS
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
LOW POWER STATION KCSO-LD
SACRAMENTO, CALIFORNIA
CHANNEL 3 3 KW (MAX-DA) 519 M AMSL
CHANNEL 3 5 KW (MAX-DA) 519 M AMSL (STA)

The applicant proposes a minor revision of the authorized low power digital television construction permit for KCSO-LD, Sacramento, California, to change to another tower located in the Walnut Grove, California broadcast antenna farm. In addition, it is respectfully requested to extend its authorization for operation with a maximum effective radiated power of 5 kW pursuant to Special Temporary Authority (STA) at the new transmitter site. As indicated in the instant modification application, the existing antenna will be employed with a rotation of 180°. The antenna will be mounted at a height of 518 m AGL / 519 m AMSL on an existing tower structure. A ‘full-service’ transmitter emission mask will be employed.

It is demonstrated in the Interference Analysis report below that the instant proposal is compliant with the FCC’s *de minimis* interference protection requirements with respect to all facilities with the exception of the K03HY-D, San Francisco, CA, licensed and construction permit facilities. However, there is an interference consent agreement with the licensee of K03HY-D, a copy of which is included herein.

In addition, as demonstrated in a second Interference Analysis report below with respect to the K03HY-D facilities, the current level of predicted interference with respect to K03HY-D facilities will be reduced as a result of the instant proposal.

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
TW Census data selected 2000
Data Base Selected
/export/home/cdb/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-27-2016

Record Selected for Analysis

KCSO-LD USERRECORD-01 SACRAMENTO CA US
Channel 03 ERP 5. kW HAAT 518. m RCAMSL 00519 m FULL SERVICE MASK
Latitude 038-16-18 Longitude 0121-30-18
Status APP Zone 2 Border Site number: 01
Dir Antenna Make CDB Model 00000000106417 Beam tilt N Ref Azimuth 180.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station
Service Class = LD
Maximum height/power limits not checked

Site number	1		
Azimuth	ERP	HAAT	43.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	1.922	518.5	76.162
45.0	4.661	513.9	83.669
90.0	4.901	515.5	84.156
135.0	4.661	517.8	83.873
180.0	1.922	519.8	76.239
225.0	0.063	519.9	46.524
270.0	0.249	519.0	57.637
315.0	0.063	518.8	46.469

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station	Call	City/State	ARN
03	KCSO-LD	SACRAMENTO	CA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	K02QP	KEYES CA	102.9	CP	BNPDVL	-20090825BPB
02	KFTY-LD	MIDDLETOWN CA	78.5	CP	BPDVL	-20140620ABA
02	KFTY-LD	MIDDLETOWN CA	107.5	LIC	BLDVL	-20140310AAD

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

02	KQRO-LD	MORGAN HILL CA	131.3	LIC	BLANK	-0000001892
02	KQRM-LP	PETALUMA CA	101.9	LIC	BLTVL	-20120907AEC
02	KOTR-LP	SANTA CRUZ CA	193.3	LIC	BLTVL	-20100721DAA
02	K02QW-D	RENO NV	207.4	CP	BNPDVL	-20090827ACY
03	K03IR-D	BAKERSFIELD CA	403.3	CP	BPDVL	-20100520ABV
03	K03HX-D	ETNA CA	375.3	LIC	BLDTV	-20081001ACJ
03	KIEM-TV	EUREKA CA	344.5	LIC	BLCDDT	-20090622AGO
03	K03HK	FRESNO CA	221.7	LIC	BLTVL	-20060327AIS
03	K03HK	FRESNO CA	221.7	APP	BPTVL	-20040329AFS
03	K03FU	MOUNTAIN GATE, ETC. CA	283.7	LIC	BLTTV	-19810713IN
03	K03FU	MOUNTAIN GATE, ETC. CA	283.9	CP	BDFCDTV	-20110812ACW
03	K03HY-D	SAN FRANCISCO CA	101.9	LIC	BLDVL	-20140609AAP
03	K03HY-D	SAN FRANCISCO CA	100.8	CP	BLANK	-0000011268
03	K03IC-D	SANTA ROSA CA	104.2	LIC	BLDVL	-20140328AKF
03	K03IC-D	SANTA ROSA CA	107.5	CP	BPDVL	-20140627ACG
03	KCNL-LD	RENO NV	207.5	LIC	BLDVL	-20140619ABN
04	K04QR-D	ESPARTO CA	54.8	LIC	BLDVL	-20100714ABU
04	K04QC	PALERMO CA	132.6	LIC	BLTVL	-20050114ADZ
04	K04RS-D	SAN JUAN BAUTISTA CA	131.5	CP	BPDVL	-20150219AAL
04	K04RS-D	SAN JUAN BAUTISTA CA	168.4	LIC	BLDVL	-20140318AHH
04	KTVJ-LD	SAN RAFAEL CA	101.9	LIC	BLANK	-0000001344
04	KTVJ-LD	SAN RAFAEL CA	100.8	CP	BLANK	-0000011269
04	KBIS-LD	TURLOCK CA	81.0	CP	BLANK	-0000011441
04	KBIS-LD	TURLOCK CA	102.9	LIC	BLANK	-0000011396
04	KRMF-LD	RENO NV	207.5	LIC	BLDVL	-20140224ADC

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	K02QP	KEYES CA	BNPDVL	-20090825BPB

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	KFTY-LD	MIDDLETOWN CA	BPDVL	-20140620ABA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	K02QP	KEYES CA	180.7	CP	BNPDVL	-20090825BPB
02	KQRO-LD	MORGAN HILL CA	187.1	LIC	BLANK	-0000001892
02	KQRM-LP	PETALUMA CA	103.6	LIC	BLTVL	-20120907AEC
02	KOTR-LP	SANTA CRUZ CA	254.2	LIC	BLTVL	-20100721DAA
02	K02OD-D	SHELTER COVE CA	215.2	LIC	BLDTV	-20120622AAQ
02	K02QW-D	RENO NV	218.9	CP	BNPDVL	-20090827ACY
03	K03HY-D	SAN FRANCISCO CA	103.6	LIC	BLDVL	-20140609AAP
03	K03HY-D	SAN FRANCISCO CA	118.2	CP	BLANK	-0000011268
03	K03IC-D	SANTA ROSA CA	56.1	LIC	BLDVL	-20140328AKF
03	K03IC-D	SANTA ROSA CA	46.0	CP	BPDVL	-20140627ACG
03	KCSO-LD	SACRAMENTO CA	78.5	APP	USERRECORD-01	

Total scenarios = 2

Result key:

Scenario 1 Affected station 2
Before Analysis

Results for: 2A CA MIDDLETOWN BPDVL 20140620ABA CP
HAAT 493.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2077718	15876.4
not affected by terrain losses	2071213	15761.5
lost to NTSC IX	249913	920.7
lost to additional IX by ATV	17421	205.7
lost to ATV IX only	228294	816.8
lost to all IX	267334	1126.4

Potential Interfering Stations Included in above Scenario 1

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

2N CA PETALUMA	BLTVL	20120907AEC	LIC
2N CA SANTA CRUZ	BLTVL	20100721DAA	LIC
2A CA KEYES	BNPDVL	20090825BPB	CP
2A CA MORGAN HILL	BLANK	0000001892	LIC
3A CA SAN FRANCISCO	BLANK	0000011268	CP
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC

After Analysis

Results for: 2A CA MIDDLETOWN BPDVL 20140620ABA CP

HAAT 493.0 m, ATV ERP 3.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	2077718	15876.4
not affected by terrain losses	2071213	15761.5
lost to NTSC IX	249913	920.7
lost to additional IX by ATV	17431	210.7
lost to ATV IX only	228304	821.8
lost to all IX	267344	1131.4

Potential Interfering Stations Included in above Scenario 1

2N CA PETALUMA	BLTVL	20120907AEC	LIC
2N CA SANTA CRUZ	BLTVL	20100721DAA	LIC
2A CA KEYES	BNPDVL	20090825BPB	CP
2A CA MORGAN HILL	BLANK	0000001892	LIC
3A CA SAN FRANCISCO	BLANK	0000011268	CP
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
3A CA SACRAMENTO	USERRECORD01		APP

Percent new IX = 0.0006%

Worst case new IX 0.0006% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	KFTY-LD	MIDDLETOWN CA	BLDVL	-20140310AAD

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	KQRO-LD	MORGAN HILL CA	BLANK	-0000001892

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	K02QP	KEYES CA	94.3	CP	BNPDVL	-20090825BPB
02	KFTY-LD	MIDDLETOWN CA	187.1	CP	BPDVL	-20140620ABA
02	KFTY-LD	MIDDLETOWN CA	186.0	LIC	BLDVL	-20140310AAD
02	KQRM-LP	PETALUMA CA	111.9	LIC	BLTVL	-20120907AEC
02	KOTR-LP	SANTA CRUZ CA	67.6	LIC	BLTVL	-20100721DAA
03	K03HY-D	SAN FRANCISCO CA	111.9	LIC	BLDVL	-20140609AAP
03	K03HY-D	SAN FRANCISCO CA	89.4	CP	BLANK	-0000011268
03	K03IC-D	SANTA ROSA CA	186.0	CP	BPDVL	-20140627ACG
03	KCSO-LD	SACRAMENTO CA	131.3	APP	USERRECORD-01	

Total scenarios = 4

Result key: 3

Scenario 1 Affected station 4

Before Analysis

Results for: 2A CA MORGAN HILL BLANK 0000001892 LIC

HAAT 928.0 m, ATV ERP 3.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	3646272	9326.8
not affected by terrain losses	3645863	9299.0
lost to NTSC IX	490129	1275.1
lost to additional IX by ATV	88278	1233.4

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

lost to ATV IX only	127792	1528.3
lost to all IX	578407	2508.5

Potential Interfering Stations Included in above Scenario 1

2N CA PETALUMA	BLTVL	20120907AEC	LIC
2N CA SANTA CRUZ	BLTVL	20100721DAA	LIC
2A CA KEYES	BNPDVL	20090825BPB	CP
2A CA MIDDLETOWN	BPDVL	20140620ABA	CP
3A CA SAN FRANCISCO	BLDVL	20140609AAP	LIC

After Analysis

Results for: 2A CA MORGAN HILL BLANK 0000001892 LIC

HAAT 928.0 m, ATV ERP 3.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	3646272	9326.8
not affected by terrain losses	3645863	9299.0
lost to NTSC IX	490129	1275.1
lost to additional IX by ATV	88278	1235.4
lost to ATV IX only	127792	1530.3
lost to all IX	578407	2510.5

Potential Interfering Stations Included in above Scenario 1

2N CA PETALUMA	BLTVL	20120907AEC	LIC
2N CA SANTA CRUZ	BLTVL	20100721DAA	LIC
2A CA KEYES	BNPDVL	20090825BPB	CP
2A CA MIDDLETOWN	BPDVL	20140620ABA	CP
3A CA SAN FRANCISCO	BLDVL	20140609AAP	LIC
3A CA SACRAMENTO	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
02	KQRM-LP	PETALUMA CA	BLTVL -20120907AEC

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
02	KOTR-LP	SANTA CRUZ CA	BLTVL -20100721DAA

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
02	K02QW-D	RENO NV	BNPDVL -20090827ACY

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 8

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03IR-D	BAKERSFIELD CA	BPDVL	-20100520ABV

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03HX-D	ETNA CA	BLDTV	-20081001ACJ

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	KIEM-TV	EUREKA CA	BLCDT	-20090622AGO

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03HK	FRESNO CA	BLTVL	-20060327AIS

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03HK	FRESNO CA	BPTVL	-20040329AFS

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03FU	MOUNTAIN GATE, ETC. CA	BLTTV	-19810713IN

Stations Potentially Affecting This Station

Proposal causes no interference

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OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03FU	MOUNTAIN GATE, ETC. CA	BDFCDTV	-20110812ACW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	K18LJ-D	DUNSMUIR, ETC. CA	52.7	CP	BDFCDTV	-20111026AEH
02	K18LJ-D	DUNSMUIR, ETC. CA	52.7	LIC	BLTTV	-4615
02	K02FF	LAKEHEAD CA	14.8	LIC	BLTTV	-3832
02	K02EE-D	WEAVERVILLE CA	57.3	LIC	BLDTV	-20080930AEI
03	K03HX-D	ETNA CA	95.3	LIC	BLDTV	-20081001ACJ
03	KIEM-TV	EUREKA CA	139.1	LIC	BLCDDT	-20090622AGO
03	K03IC-D	SANTA ROSA CA	233.1	CP	BPDVL	-20140627ACG
03	KCNL-LD	RENO NV	249.0	LIC	BLDVL	-20140619ABN
04	K04EZ	BIG BEND, ETC. CA	40.9	CP	BDFCDTV	-20110812ACV
04	K04EZ	BIG BEND, ETC. CA	41.5	LIC	BLTTV	-1168
04	K04DD-D	WEAVERVILLE CA	57.3	LIC	BLDTV	-20090608AAF
03	KCSO-LD	SACRAMENTO CA	283.9	APP	USERRECORD-01	

Total scenarios = 1

Result key:

7

Scenario 1 Affected station 14
Before Analysis

Results for: 3A CA MOUNTAIN GATE, ETC. BDFCDTV 20110812ACW CP

HAAT	496.0 m, ATV ERP	0.3 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			152130	4612.7
not affected by terrain losses			151698	4583.9
lost to NTSC IX			0	0.0
lost to additional IX by ATV			115	38.8
lost to ATV IX only			115	38.8
lost to all IX			115	38.8

Potential Interfering Stations Included in above Scenario 1

2A CA WEAVERVILLE	BLDTV	20080930AEI	LIC
3A CA EUREKA	BLCDDT	20090622AGO	LIC
4A CA WEAVERVILLE	BLDTV	20090608AAF	LIC

After Analysis

Results for: 3A CA MOUNTAIN GATE, ETC. BDFCDTV 20110812ACW CP

HAAT	496.0 m, ATV ERP	0.3 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			152130	4612.7
not affected by terrain losses			151698	4583.9
lost to NTSC IX			0	0.0
lost to additional IX by ATV			115	42.8
lost to ATV IX only			115	42.8
lost to all IX			115	42.8

Potential Interfering Stations Included in above Scenario 1

2A CA WEAVERVILLE	BLDTV	20080930AEI	LIC
3A CA EUREKA	BLCDDT	20090622AGO	LIC
4A CA WEAVERVILLE	BLDTV	20090608AAF	LIC
3A CA SACRAMENTO	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03HY-D	SAN FRANCISCO CA	BLDVL	-20140609AAP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KFTY-LD	MIDDLETOWN CA	103.6	CP	BPDVL	-20140620ABA

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

02	KFTY-LD	MIDDLETOWN CA	82.3	LIC	BLDVL	-20140310AAD
02	KQRO-LD	MORGAN HILL CA	111.9	LIC	BLANK	-0000001892
02	KQRM-LP	PETALUMA CA	0.0	LIC	BLTVL	-20120907AEC
03	KIEM-TV	EUREKA CA	332.8	LIC	BLCDDT	-20090622AGO
03	K03HK	FRESNO CA	282.6	APP	BPTVL	-20040329AFS
03	K03IC-D	SANTA ROSA CA	64.7	LIC	BLDVL	-20140328AKF
03	K03IC-D	SANTA ROSA CA	82.3	CP	BPDVL	-20140627ACG
04	KTVJ-LD	SAN RAFAEL CA	0.0	LIC	BLANK	-0000001344
04	KTVJ-LD	SAN RAFAEL CA	22.6	CP	BLANK	-0000011269
03	KCSO-LD	SACRAMENTO CA	101.9	APP	USERRECORD-01	

Total scenarios = 2

Result key: 8
Scenario 1 Affected station 15
Before Analysis

Results for: 3A CA SAN FRANCISCO BLDVL 20140609AAP LIC
HAAT 756.0 m, ATV ERP 2.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4814973	11061.0
not affected by terrain losses	4814640	11046.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	65775	277.7
lost to ATV IX only	65775	277.7
lost to all IX	65775	277.7

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BLDVL	20140310AAD	LIC
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA SAN RAFAEL	BLANK	0000011269	CP

After Analysis

Results for: 3A CA SAN FRANCISCO BLDVL 20140609AAP LIC
HAAT 756.0 m, ATV ERP 2.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4814973	11061.0
not affected by terrain losses	4814640	11046.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	315478	1296.8
lost to ATV IX only	315478	1296.8
lost to all IX	315478	1296.8

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BLDVL	20140310AAD	LIC
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA SAN RAFAEL	BLANK	0000011269	CP
3A CA SACRAMENTO	USERRECORD01		APP

The following station failed the de minimis interference criteria.

3D CA SACRAMENTO USERRECORD01
ERP 5.00 kW HAAT 518.0 m RCAMSL 519.0 m
Antenna CDB 00000000106417

Interference consent agreement is in place
with the licensee of K03HY-D.

Due to interference to the following station and scenario: 1

3D CA SAN FRANCISCO BLDVL 20140609AAP
ERP 2.50 kW HAAT 756.0 m RCAMSL 770.0 m
Antenna CDB 00000000020774

Percent new interference from proposal: 5.2582 to BLDVL 20140609AAP

Worst case new IX 5.2582% Scenario 1

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application Ref. No.
03	K03HY-D	SAN FRANCISCO CA	BLANK -0000011268

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
02	KFTY-LD	MIDDLETOWN CA	118.2	CP	BPDVL -20140620ABA
02	KFTY-LD	MIDDLETOWN CA	102.8	LIC	BLDVL -20140310AAD
02	KQRO-LD	MORGAN HILL CA	89.4	LIC	BLANK -0000001892
02	KQRM-LP	PETALUMA CA	22.6	LIC	BLTVL -20120907AEC

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

03	KIEM-TV	EUREKA CA	355.0	LIC	BLCDT	-20090622AGO
03	K03HK	FRESNO CA	264.7	LIC	BLTVL	-20060327AIS
03	K03HK	FRESNO CA	264.7	APP	BPTVL	-20040329AFS
03	K03IC-D	SANTA ROSA CA	85.7	LIC	BLDVL	-20140328AKF
03	K03IC-D	SANTA ROSA CA	102.8	CP	BPDVL	-20140627ACG
04	K04RS-D	SAN JUAN BAUTISTA CA	90.4	CP	BPDVL	-20150219AAL
04	K04RS-D	SAN JUAN BAUTISTA CA	139.2	LIC	BLDVL	-20140318AHH
04	KTVJ-LD	SAN RAFAEL CA	22.6	LIC	BLANK	-0000001344
04	KTVJ-LD	SAN RAFAEL CA	0.0	CP	BLANK	-0000011269
03	KCSO-LD	SACRAMENTO CA	100.8	APP	USERRECORD-01	

Total scenarios = 2

Result key: 10
Scenario 1 Affected station 16
Before Analysis

Results for: 3A CA SAN FRANCISCO BLANK 0000011268 CP
HAAT 480.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6146139	18488.1
not affected by terrain losses	6145135	18427.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	146845	860.0
lost to ATV IX only	146845	860.0
lost to all IX	146845	860.0

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BLDVL	20140310AAD	LIC
2A CA MORGAN HILL	BLANK	0000001892	LIC
3A CA EUREKA	BLCDT	20090622AGO	LIC
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA SAN JUAN BAUTISTA	BLDVL	20140318AHH	LIC

After Analysis

Results for: 3A CA SAN FRANCISCO BLANK 0000011268 CP
HAAT 480.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6146139	18488.1
not affected by terrain losses	6145135	18427.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	469313	2352.6
lost to ATV IX only	469313	2352.6
lost to all IX	469313	2352.6

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BLDVL	20140310AAD	LIC
2A CA MORGAN HILL	BLANK	0000001892	LIC
3A CA EUREKA	BLCDT	20090622AGO	LIC
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA SAN JUAN BAUTISTA	BLDVL	20140318AHH	LIC
3A CA SACRAMENTO	USERRECORD01		APP

The following station failed the de minimis interference criteria.
3D CA SACRAMENTO USERRECORD01
ERP 5.00 kW HAAT 518.0 m RCAMSL 519.0 m
Antenna CDB 00000000106417

Due to interference to the following station and scenario: 1
3D CA SAN FRANCISCO BLANK 0000011268
ERP 3.00 kW HAAT 480.0 m RCAMSL 486.0 m
Antenna CDB 99999999999999

Percent new interference from proposal: 5.3760 to BLANK 0000011268

Worst case new IX 5.3760% Scenario 1

#####

Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03IC-D	SANTA ROSA CA	BLDVL	-20140328AKF

Stations Potentially Affecting This Station

Proposal causes no interference

Interference consent agreement is in place
with the licensee of K03HY-D.

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

#####

Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03IC-D	SANTA ROSA CA	BPDVL	-20140627ACG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KFTY-LD	MIDDLETOWN CA	46.0	CP	BPDVL	-20140620ABA
02	KFTY-LD	MIDDLETOWN CA	0.0	LIC	BLDVL	-20140310AAD
02	KQRO-LD	MORGAN HILL CA	186.0	LIC	BLANK	-0000001892
02	KQRM-LP	PETALUMA CA	82.3	LIC	BLTVL	-20120907AEC
03	KIEM-TV	EUREKA CA	255.4	LIC	BLCDDT	-20090622AGO
03	K03FU	MOUNTAIN GATE, ETC. CA	233.1	CP	BDFCDTV	-20110812ACW
03	K03HY-D	SAN FRANCISCO CA	82.3	LIC	BLDVL	-20140609AAP
03	K03HY-D	SAN FRANCISCO CA	102.8	CP	BLANK	-0000011268
03	KCNL-LD	RENO NV	264.6	LIC	BLDVL	-20140619ABN
04	K04QR-D	ESPARTO CA	133.2	LIC	BLDVL	-20100714ABU
04	KTVJ-LD	SAN RAFAEL CA	82.3	LIC	BLANK	-0000001344
04	KTVJ-LD	SAN RAFAEL CA	102.8	CP	BLANK	-0000011269
03	KCSO-LD	SACRAMENTO CA	107.5	APP	USERRECORD-01	

Total scenarios = 4

Result key: 12

Scenario 1 Affected station 18

Before Analysis

Results for: 3A CA SANTA ROSA BPDVL 20140627ACG CP
HAAT 1129.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	556979	17606.9
not affected by terrain losses	556957	17583.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	29097	2218.1
lost to ATV IX only	29097	2218.1
lost to all IX	29097	2218.1

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BPDVL	20140620ABA	CP
3A CA EUREKA	BLCDDT	20090622AGO	LIC
3A CA MOUNTAIN GATE, ETC.	BDFCDTV	20110812ACW	CP
3A CA SAN FRANCISCO	BLDVL	20140609AAP	LIC
4A CA SAN RAFAEL	BLANK	0000011269	CP

After Analysis

Results for: 3A CA SANTA ROSA BPDVL 20140627ACG CP
HAAT 1129.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	556979	17606.9
not affected by terrain losses	556957	17583.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31532	2391.8
lost to ATV IX only	31532	2391.8
lost to all IX	31532	2391.8

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BPDVL	20140620ABA	CP
3A CA EUREKA	BLCDDT	20090622AGO	LIC
3A CA MOUNTAIN GATE, ETC.	BDFCDTV	20110812ACW	CP
3A CA SAN FRANCISCO	BLDVL	20140609AAP	LIC
4A CA SAN RAFAEL	BLANK	0000011269	CP
3A CA SACRAMENTO	USERRECORD01		APP

Percent new IX = 0.4613%

Worst case new IX 0.4613% Scenario 1

#####

Analysis of Interference to Affected Station 19

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

Analysis of current record

Channel	Call	City/State	Application Ref. No.
03	KCNL-LD	RENO NV	BLDVL -20140619ABN

Stations Potentially Affecting This Station

Proposal causes no interference

#####

Analysis of Interference to Affected Station 20

Analysis of current record

Channel	Call	City/State	Application Ref. No.
04	K04QR-D	ESPARTO CA	BLDVL -20100714ABU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
03	K03IC-D	SANTA ROSA CA	133.2	CP	BPDVL -20140627ACG
04	K04QC	PALERMO CA	99.7	LIC	BLTVL -20050114ADZ
04	K04RS-D	SAN JUAN BAUTISTA CA	213.3	LIC	BLDVL -20140318AHH
04	KTVJ-LD	SAN RAFAEL CA	152.5	LIC	BLANK -0000001344
04	KTVJ-LD	SAN RAFAEL CA	154.4	CP	BLANK -0000011269
04	KBIS-LD	TURLOCK CA	111.1	CP	BLANK -0000011441
04	KBIS-LD	TURLOCK CA	130.1	LIC	BLANK -0000011396
04	KRMF-LD	RENO NV	152.9	LIC	BLDVL -20140224ADC
03	KCSO-LD	SACRAMENTO CA	54.8	APP	USERRECORD-01

Total scenarios = 4

Result key: 17

Scenario 2 Affected station 20

Before Analysis

Results for: 4A CA ESPARTO BLDVL 20100714ABU LIC

HAAT 257.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1248924	1879.5
not affected by terrain losses	1248921	1865.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	99901	142.5
lost to ATV IX only	99901	142.5
lost to all IX	99901	142.5

Potential Interfering Stations Included in above Scenario 2

4A CA SAN JUAN BAUTISTA	BLDVL	20140318AHH	LIC
4A CA SAN RAFAEL	BLANK	0000001344	LIC
4A CA TURLOCK	BLANK	0000011396	LIC

After Analysis

Results for: 4A CA ESPARTO BLDVL 20100714ABU LIC

HAAT 257.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1248924	1879.5
not affected by terrain losses	1248921	1865.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	100215	143.5
lost to ATV IX only	100215	143.5
lost to all IX	100215	143.5

Potential Interfering Stations Included in above Scenario 2

4A CA SAN JUAN BAUTISTA	BLDVL	20140318AHH	LIC
4A CA SAN RAFAEL	BLANK	0000001344	LIC
4A CA TURLOCK	BLANK	0000011396	LIC
3A CA SACRAMENTO	USERRECORD01		APP

Percent new IX = 0.0273%

Worst case new IX 0.0273% Scenario 2

#####

Analysis of Interference to Affected Station 21

Analysis of current record

Channel	Call	City/State	Application Ref. No.
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OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

04 K04QC PALERMO CA BLTVL -20050114ADZ

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 22

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
04	K04RS-D	SAN JUAN BAUTISTA CA	BPDVL	-20150219AAL

Stations Potentially Affecting This Station

Proposal causes no interference

#####

Analysis of Interference to Affected Station 23

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
04	K04RS-D	SAN JUAN BAUTISTA CA	BLDVL	-20140318AHH

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 24

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
04	KTVJ-LD	SAN RAFAEL CA	BLANK	-0000001344

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
03	K03HY-D	SAN FRANCISCO CA	0.0	LIC	BLDVL	-20140609AAP
03	K03HY-D	SAN FRANCISCO CA	22.6	CP	BLANK	-0000011268
03	K03IC-D	SANTA ROSA CA	64.7	LIC	BLDVL	-20140328AKF
03	K03IC-D	SANTA ROSA CA	82.3	CP	BPDVL	-20140627ACG
04	K04QR-D	ESPARTO CA	152.5	LIC	BLDVL	-20100714ABU
04	K04QC	PALERMO CA	191.5	LIC	BLTVL	-20050114ADZ
04	K04RS-D	SAN JUAN BAUTISTA CA	112.9	CP	BPDVL	-20150219AAL
04	K04RS-D	SAN JUAN BAUTISTA CA	161.7	LIC	BLDVL	-20140318AHH
04	KBIS-LD	TURLOCK CA	140.7	CP	BLANK	-0000011441
04	KBIS-LD	TURLOCK CA	158.2	LIC	BLANK	-0000011396
03	KCSO-LD	SACRAMENTO CA	101.9	APP	USERRECORD-01	

Total scenarios = 4

Result key: 20

Scenario 1 Affected station 24
Before Analysis

Results for: 4A CA SAN RAFAEL BLANK 0000001344 LIC
HAAT 756.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4741969	11682.6
not affected by terrain losses	4741864	11668.8
lost to NTSC IX	217	3.9
lost to additional IX by ATV	187834	599.8
lost to ATV IX only	187834	602.8
lost to all IX	188051	603.8

Potential Interfering Stations Included in above Scenario 1

4N CA PALERMO	BLTVL	20050114ADZ	LIC
3A CA SAN FRANCISCO	BLANK	0000011268	CP
4A CA ESPARTO	BLDVL	20100714ABU	LIC
4A CA SAN JUAN BAUTISTA	BPDVL	20150219AAL	CP

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

4A CA TURLOCK BLANK 0000011441 CP

After Analysis

Results for: 4A CA SAN RAFAEL BLANK 0000001344 LIC

HAAT 756.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4741969	11682.6
not affected by terrain losses	4741864	11668.8
lost to NTSC IX	217	3.9
lost to additional IX by ATV	187847	600.8
lost to ATV IX only	187847	603.8
lost to all IX	188064	604.8

Potential Interfering Stations Included in above Scenario 1

4N CA PALERMO	BLTVL	20050114ADZ	LIC
3A CA SAN FRANCISCO	BLANK	0000011268	CP
4A CA ESPARTO	BLDVL	20100714ABU	LIC
4A CA SAN JUAN BAUTISTA	BPDVL	20150219AAL	CP
4A CA TURLOCK	BLANK	0000011441	CP
3A CA SACRAMENTO	USERRECORD01		APP

Percent new IX = 0.0003%

Worst case new IX 0.0003% Scenario 1

#####

Analysis of Interference to Affected Station 25

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
04	KTVJ-LD	SAN RAFAEL CA	BLANK	-0000011269

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
03	K03HY-D	SAN FRANCISCO CA	22.6	LIC	BLDVL	-20140609AAP
03	K03HY-D	SAN FRANCISCO CA	0.0	CP	BLANK	-0000011268
03	K03IC-D	SANTA ROSA CA	85.7	LIC	BLDVL	-20140328AKF
03	K03IC-D	SANTA ROSA CA	102.8	CP	BPDVL	-20140627ACG
04	K04QR-D	ESPARTO CA	154.4	LIC	BLDVL	-20100714ABU
04	K04QC	PALERMO CA	204.3	LIC	BLTVL	-20050114ADZ
04	K04RS-D	SAN JUAN BAUTISTA CA	90.4	CP	BPDVL	-20150219AAL
04	K04RS-D	SAN JUAN BAUTISTA CA	139.2	LIC	BLDVL	-20140318AHH
04	KBIS-LD	TURLOCK CA	126.2	CP	BLANK	-0000011441
04	KBIS-LD	TURLOCK CA	142.0	LIC	BLANK	-0000011396
03	KCSO-LD	SACRAMENTO CA	100.8	APP	USERRECORD-01	

Total scenarios = 8

Result key: 25

Scenario 2 Affected station 25

Before Analysis

Results for: 4A CA SAN RAFAEL BLANK 0000011269 CP

HAAT 480.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6146139	18488.1
not affected by terrain losses	6145016	18421.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	412088	391.4
lost to ATV IX only	412088	391.4
lost to all IX	412088	391.4

Potential Interfering Stations Included in above Scenario 2

3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA ESPARTO	BLDVL	20100714ABU	LIC
4A CA SAN JUAN BAUTISTA	BPDVL	20150219AAL	CP
4A CA TURLOCK	BLANK	0000011396	LIC

After Analysis

Results for: 4A CA SAN RAFAEL BLANK 0000011269 CP

HAAT 480.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6146139	18488.1
not affected by terrain losses	6145016	18421.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	412089	396.4

OET-69 Interference Analysis (Proposed KCSO-LD, Sacramento, CA, Ch. 3) (Summary Results)

lost to ATV IX only	412089	396.4
lost to all IX	412089	396.4

Potential Interfering Stations Included in above Scenario 2

3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA ESPARTO	BLDVL	20100714ABU	LIC
4A CA SAN JUAN BAUTISTA	BPDVL	20150219AAL	CP
4A CA TURLOCK	BLANK	0000011396	LIC
3A CA SACRAMENTO	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 2

#####

Analysis of Interference to Affected Station 26

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
04	KBIS-LD	TURLOCK CA	BLANK	-0000011441

Stations Potentially Affecting This Station

Proposal causes no interference

#####

Analysis of Interference to Affected Station 27

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
04	KBIS-LD	TURLOCK CA	BLANK	-0000011396

Stations Potentially Affecting This Station

Proposal causes no interference

#####

Analysis of Interference to Affected Station 28

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
04	KRMF-LD	RENO NV	BLDVL	-20140224ADC

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

#####

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

OET-69 Interference Analysis from Licensed/STA KCSO-LD, Sacramento, CA, Ch. 3 Facility (5 kW STA) with Respect to K03HY-D Facilities

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
TW Census data selected 2000
Data Base Selected
/export/home/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-27-2016

Record Selected for Analysis

KCSO-LD USERRECORD-01 SACRAMENTO CA US
Channel 03 ERP 5. kW HAAT 593. m RCAMSL 00949 m FULL SERVICE MASK
Latitude 038-07-10 Longitude 0120-43-27
Status APP Zone 2 Border Site number: 01
Dir Antenna Make CDB Model 00000000106417 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station
Service Class = LD
Maximum height/power limits not checked

Site number	1		
Azimuth	ERP	HAAT	43.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	1.922	544.4	77.595
45.0	0.063	493.5	45.202
90.0	0.249	568.7	60.183
135.0	0.063	457.8	43.519
180.0	1.922	578.3	79.071
225.0	4.661	694.8	89.856
270.0	4.901	752.0	91.976
315.0	4.661	656.9	88.749

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations
Proposed facility OK toward West Virginia quiet zone
Proposed facility OK toward Table Mountain
Proposed facility is beyond the Canadian coordination distance
Proposed facility is beyond the Mexican coordination distance
Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station	Call	City/State	ARN
03	KCSO-LD	SACRAMENTO	CA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	K02QP	KEYES CA	71.1	CP	BNPDVL	-20090825BPB

OET-69 Interference Analysis from Licensed/STA KCSO-LD, Sacramento, CA, Ch. 3 Facility (5 kW STA) with Respect to K03HY-D Facilities

02	KFTY-LD	MIDDLETOWN CA	142.5	CP	BPDVL	-20140620ABA
02	KFTY-LD	MIDDLETOWN CA	177.0	LIC	BLDVL	-20140310AAD
02	KQRO-LD	MORGAN HILL CA	147.9	LIC	BLANK	-0000001892
02	KQRM-LP	PETALUMA CA	164.4	LIC	BLTVL	-20120907AEC
02	KOTR-LP	SANTA CRUZ CA	193.1	LIC	BLTVL	-20100721DAA
02	K02QW-D	RENO NV	181.4	CP	BNPDVL	-20090827ACY
03	K03IR-D	BAKERSFIELD CA	355.5	CP	BPDVL	-20100520ABV
03	K03HX-D	ETNA CA	416.9	LIC	BLDTV	-20081001ACJ
03	KIEM-TV	EUREKA CA	401.2	LIC	BLCDDT	-20090622AGO
03	K03HK	FRESNO CA	163.0	LIC	BLTVL	-20060327AIS
03	K03FU	MOUNTAIN GATE, ETC. CA	322.0	LIC	BLTTV	-19810713IN
03	K03FU	MOUNTAIN GATE, ETC. CA	322.3	CP	BDFCDTV	-20110812ACW
03	K03HY-D	SAN FRANCISCO CA	164.4	LIC	BLDVL	-20140609AAP
03	K03HY-D	SAN FRANCISCO CA	156.7	CP	BLANK	-0000011268
03	K03IC-D	SANTA ROSA CA	174.4	LIC	BLDVL	-20140328AKF
03	K03IC-D	SANTA ROSA CA	177.0	CP	BPDVL	-20140627ACG
03	KCNL-LD	RENO NV	181.4	LIC	BLDVL	-20140619ABN
04	K04QR-D	ESPARTO CA	67.2	LIC	BLDVL	-20100714ABU
04	K04QC	PALERMO CA	166.7	LIC	BLTVL	-20050114ADZ
04	K04RS-D	SAN JUAN BAUTISTA CA	147.5	CP	BPDVL	-20150219AAL
04	K04RS-D	SAN JUAN BAUTISTA CA	166.3	LIC	BLDVL	-20140318AAH
04	KTVJ-LD	SAN RAFAEL CA	164.4	LIC	BLANK	-0000001344
04	KTVJ-LD	SAN RAFAEL CA	156.7	CP	BLANK	-0000011269
04	KBIS-LD	TURLOCK CA	58.4	CP	BLANK	-0000011441
04	KBIS-LD	TURLOCK CA	71.1	LIC	BLANK	-0000011396
04	KRMF-LD	RENO NV	181.4	LIC	BLDVL	-20140224ADC

%%%

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03HY-D	SAN FRANCISCO CA	BLDVL	-20140609AAP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KFTY-LD	MIDDLETOWN CA	103.6	CP	BPDVL	-20140620ABA
02	KFTY-LD	MIDDLETOWN CA	82.3	LIC	BLDVL	-20140310AAD
02	KQRO-LD	MORGAN HILL CA	111.9	LIC	BLANK	-0000001892
02	KQRM-LP	PETALUMA CA	0.0	LIC	BLTVL	-20120907AEC
03	KIEM-TV	EUREKA CA	332.8	LIC	BLCDDT	-20090622AGO
03	K03IC-D	SANTA ROSA CA	64.7	LIC	BLDVL	-20140328AKF
03	K03IC-D	SANTA ROSA CA	82.3	CP	BPDVL	-20140627ACG
04	KTVJ-LD	SAN RAFAEL CA	0.0	LIC	BLANK	-0000001344
04	KTVJ-LD	SAN RAFAEL CA	22.6	CP	BLANK	-0000011269
03	KCSO-LD	SACRAMENTO CA	164.4	APP	USERRECORD-01	

Total scenarios = 2

Result key: 5

Scenario 1 Affected station 14
Before Analysis

Results for: 3A CA SAN FRANCISCO BLDVL 20140609AAP LIC
HAAT 756.0 m, ATV ERP 2.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4814973	11061.0
not affected by terrain losses	4814640	11046.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	65775	277.7
lost to ATV IX only	65775	277.7
lost to all IX	65775	277.7

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BLDVL	20140310AAD	LIC
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA SAN RAFAEL	BLANK	0000011269	CP

After Analysis

Results for: 3A CA SAN FRANCISCO BLDVL 20140609AAP LIC
HAAT 756.0 m, ATV ERP 2.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4814973	11061.0
not affected by terrain losses	4814640	11046.1

OET-69 Interference Analysis from Licensed/STA KCSO-LD, Sacramento, CA, Ch. 3 Facility (5 kW STA) with Respect to K03HY-D Facilities

lost to NTSC IX	0	0.0
lost to additional IX by ATV	389447	1546.8
lost to ATV IX only	389447	1546.8
lost to all IX	389447	1546.8

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BLDVL	20140310AAD	LIC
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA SAN RAFAEL	BLANK	0000011269	CP
3A CA SACRAMENTO	USERRECORD01		APP

The following station failed the de minimis interference criteria.

3D CA SACRAMENTO USERRECORD01
ERP 5.00 kW HAAT 593.0 m RCAMSL 949.0 m
Antenna CDB 00000000106417

Due to interference to the following station and scenario: 1

3D CA SAN FRANCISCO BLDVL 20140609AAP
ERP 2.50 kW HAAT 756.0 m RCAMSL 770.0 m
Antenna CDB 00000000020774

Interference consent agreement is in place with the licensee of K03HY-D. A reduction of interference relative to existing is proposed.

Percent new interference from proposal: 6.8158 to BLDVL 20140609AAP

Worst case new IX 6.8158% Scenario 1

#####

Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
03	K03HY-D	SAN FRANCISCO CA	BLANK	-0000011268

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KFTY-LD	MIDDLETOWN CA	118.2	CP	BPDVL	-20140620ABA
02	KFTY-LD	MIDDLETOWN CA	102.8	LIC	BLDVL	-20140310AAD
02	KQRO-LD	MORGAN HILL CA	89.4	LIC	BLANK	-0000001892
02	KQRM-LP	PETALUMA CA	22.6	LIC	BLTVL	-20120907AEC
03	KIEM-TV	EUREKA CA	355.0	LIC	BLCDDT	-20090622AGO
03	K03HK	FRESNO CA	264.7	LIC	BLTVL	-20060327AIS
03	K03IC-D	SANTA ROSA CA	85.7	LIC	BLDVL	-20140328AKF
03	K03IC-D	SANTA ROSA CA	102.8	CP	BPDVL	-20140627ACG
04	K04RS-D	SAN JUAN BAUTISTA CA	90.4	CP	BPDVL	-20150219AAL
04	K04RS-D	SAN JUAN BAUTISTA CA	139.2	LIC	BLDVL	-20140318AHH
04	KTVJ-LD	SAN RAFAEL CA	22.6	LIC	BLANK	-0000001344
04	KTVJ-LD	SAN RAFAEL CA	0.0	CP	BLANK	-0000011269
03	KCSO-LD	SACRAMENTO CA	156.7	APP	USERRECORD-01	

Total scenarios = 2

Result key: 7

Scenario 1 Affected station 15
Before Analysis

Results for: 3A CA SAN FRANCISCO BLANK 0000011268 CP
HAAT 480.0 m, ATV ERP 3.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6146139	18488.1
not affected by terrain losses	6145135	18427.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	146845	860.0
lost to ATV IX only	146845	860.0
lost to all IX	146845	860.0

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BLDVL	20140310AAD	LIC
2A CA MORGAN HILL	BLANK	0000001892	LIC
3A CA EUREKA	BLCDDT	20090622AGO	LIC
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA SAN JUAN BAUTISTA	BLDVL	20140318AHH	LIC

After Analysis

Results for: 3A CA SAN FRANCISCO BLANK 0000011268 CP
HAAT 480.0 m, ATV ERP 3.0 kW

POPULATION AREA (sq km)

OET-69 Interference Analysis from Licensed/STA KCSO-LD, Sacramento, CA, Ch. 3 Facility (5 kW STA) with Respect to K03HY-D Facilities

within Noise Limited Contour	6146139	18488.1
not affected by terrain losses	6145135	18427.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	478783	2472.3
lost to ATV IX only	478783	2472.3
lost to all IX	478783	2472.3

Potential Interfering Stations Included in above Scenario 1

2A CA MIDDLETOWN	BLDVL	20140310AAD	LIC
2A CA MORGAN HILL	BLANK	0000001892	LIC
3A CA EUREKA	BLCDT	20090622AGO	LIC
3A CA SANTA ROSA	BLDVL	20140328AKF	LIC
4A CA SAN JUAN BAUTISTA	BLDVL	20140318AHH	LIC
3A CA SACRAMENTO	USERRECORD01		APP

The following station failed the de minimis interference criteria.

3D CA SACRAMENTO USERRECORD01
ERP 5.00 kW HAAT 593.0 m RCAMSL 949.0 m
Antenna CDB 00000000106417

Due to interference to the following station and scenario: 1
3D CA SAN FRANCISCO BLANK 0000011268
ERP 3.00 kW HAAT 480.0 m RCAMSL 486.0 m
Antenna CDB 9999999999999999

Percent new interference from proposal: 5.5339 to BLANK 0000011268

Worst case new IX 5.5339% Scenario 1

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

Interference consent agreement is in place with the licensee of K03HY-D. A reduction of interference relative to existing is proposed.

SAINTE 51 L.P. / KCSO-LD

142 NORTH 9TH ST.
MODESTO, CALIFORNIA 95350
209-529-5100

02/05/2011

FEDERAL COMMUNICATIONS COMMISSION
VIDEO DIVISION, MEDIA BUREAU
WASHINGTON DC 20554

Gentlemen:

We intend to file an application requesting an increase in effective radiated power 5.0 KW for KCSO-LD on DTV Channel 3 with stringent emission mask. One Ministries, Inc. has construction permits / licenses for LPTV stations nearby for which we accept and Waive any and all interference that may be caused by any application or grant caused to KCSO-LD by One Ministries, Inc's LPTV stations / applications. Furthermore, we encourage One Ministries, Inc to also seek an increase in power to 5.0 kW for K14MW-D / K03HY-D on channel 3 at Sutro Tower in San Francisco, CA.

One Ministries, Inc on behalf of our LPTV construction permits / LPTV stations, accept and Waive any and all interference that may be caused by any application or grant by Sainte 51 L.P. for KCSO-LD.

This reciprocal agreement is for the following LPTV applications / permits / stations:

Sainte 51 L.P.: KCSO-LD on DTV Channel 3

One Ministries, Inc: K14MW-D (K03HY-D) Petaluma, CA
K02QO-D Santa Rosa, CA
K02QX-D Morgan Hill, CA
K02QP Keyes, CA, CA
K03IC-D, Santa Rosa, CA
KQRM-LP Petaluma, CA Channel 2

Yours very truly,

 2/5/2011
Keith Leitch for One Ministries

Paul W. Johnson Sainte 51 L.P.

