

INTERFERENCE ANALYSIS FOR PROPOSED KION-TV, MONTEREY, CA, CHANNEL 32 (INCREASE IN ERP TO 105 KW)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: kion0823c, Model: Longley-Rice

Study build station data: LMS TV 2023-08-12

Proposal: KION0823C D32 DT CP MONTEREY, CA

File number: kion0823c

Facility ID: 26249

Station data: User record

Record ID: 5197

Country: U.S.

Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KTVU	D31	DT	LIC	OAKLAND, CA	BLANK0000212413	154.4 km
Yes	KVPT	D32	DT	LIC	FRESNO, CA	BLANK0000063002	210.0
No	KNLA-CD	D32	DC	LIC	LOS ANGELES, CA	BLANK0000068695	411.0
Yes	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	154.4
Yes	K32LT-D	D32	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000068200	156.8
Yes	KKPX-TV	D33	DT	LIC	SAN JOSE, CA	BLANK0000108766	147.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D32

Latitude: 36 32 5.00 N (NAD83)

Longitude: 121 37 18.00 W

Height AMSL: 1094.8 m

HAAT: 780.0 m

Peak ERP: 105 kW

Antenna: ERI-ATW20H6-ETC4-32H (ID 1002645) 310.0 deg

Elev Pattn: Generic

Elec Tilt: 1.50

40.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	64.7 kW	1035.7 m	111.4 km
45.0	28.6	1024.5	103.2
90.0	4.20	970.8	84.6
135.0	10.4	252.5	63.3
180.0	6.41	607.4	78.7
225.0	35.7	677.4	95.1
270.0	75.5	821.7	106.9
315.0	104	853.7	111.0

Distance to Canadian border: 1308.7 km

Distance to Mexican border: 580.4 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 355.0 degrees Distance: 132.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 69.4 degrees Distance: 1479.3 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 BLANK0000212413 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVU	D31	DT	LIC	OAKLAND, CA	BLANK0000212413	
Undesireds:	KION-TV	D32	DT	BL	MONTEREY, CA	DTVBL26249	154.4 km
	KION0823C	D32	DT	CP	MONTEREY, CA	kion0823c	154.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37386.8 8,297,634		31598.1 7,406,751		31341.6 7,403,182		31257.4 7,401,482	0.27 0.02
Undesired		Total IX		Unique IX, before		Unique IX, after	
KION-TV D32 DT BL		256.5		3,569			
KION0823C D32 DT CP		340.7		5,269		340.7 5,269	

Interference to BLANK0000063002 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVPT	D32	DT	LIC	FRESNO, CA	BLANK0000063002	
Undesireds:	KION-TV	D32	DT	BL	MONTEREY, CA	DTVBL26249	210.0 km
	KION0823C	D32	DT	CP	MONTEREY, CA	kion0823c	210.0
	KBTF-CD	D31	DC	LIC	BAKERSFIELD, CA	BLANK0000127171	153.3
	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	302.1
	K32LT-D	D32	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000068200	197.4
	KBAK-TV	D33	DT	LIC	BAKERSFIELD, CA	BLCDT20060628ABK	156.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
34451.7 1,744,349		30162.3 1,719,318		29603.2 1,711,153		29567.3 1,711,058	0.12 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
KION-TV D32 DT BL		183.4		671		79.7 230	
KION0823C D32 DT CP		263.3		882		115.7 325	
KBTF-CD D31 DC LIC		4.0		0		4.0 0	
KCNS D32 DT LIC		199.4		2,208		111.8 1,767	
K32LT-D D32 DC LIC		303.7		2,815		175.9 2,521	
KBAK-TV D33 DT LIC		28.0		3,090		12.0 2,912	

Interference to BLANK0000108769 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	
Undesireds:	KION-TV	D32	DT	BL	MONTEREY, CA	DTVBL26249	154.4 km
	KION0823C	D32	DT	CP	MONTEREY, CA	kion0823c	154.4
	KVPT	D32	DT	LIC	FRESNO, CA	BLANK0000063002	302.1
	K32LT-D	D32	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000068200	310.8
	KKPX-TV	D33	DT	LIC	SAN JOSE, CA	BLANK0000108766	7.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37139.3 8,270,858		31335.2 7,381,656		27651.4 7,020,136		27039.7 7,007,029	2.21 0.19
Undesired		Total IX		Unique IX, before		Unique IX, after	
KION-TV D32 DT BL		2495.1		63,715		2387.3 36,540	
KION0823C D32 DT CP		3193.9		102,162		2999.0 49,647	
KVPT D32 DT LIC		1074.5		304,486		915.4 252,161	
K32LT-D D32 DC LIC		4.0		0		0.0 0	
KKPX-TV D33 DT LIC		217.9		20,494		186.2 20,304	

Interference to BLANK0000068200 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K32LT-D	D32	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000068200	
Undesireds:	KION-TV	D32	DT	BL	MONTEREY, CA	DTVBL26249	156.8 km
	KION0823C	D32	DT	CP	MONTEREY, CA	kion0823c	156.8

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KVPT	D32	DT	LIC	FRESNO, CA	BLANK0000063002	197.4	
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
10345.5	379,852	8573.5	362,030	8489.2	362,025	8489.2	362,025
							0.00
Undesired			Total IX	Unique IX, before	Unique IX, after		
KION-TV D32 DT BL	16.1		5	16.1	5		
KION0823C D32 DT CP	16.1		5			16.1	5
KVPT D32 DT LIC	68.1		0	68.1	0	68.1	0

Interference to BLANK0000108766 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKPX-TV	D33	DT	LIC	SAN JOSE, CA	BLANK0000108766	
Undesireds:	KION-TV	D32	DT	BL	MONTEREY, CA	DTVBL26249	147.0 km
	KION0823C	D32	DT	CP	MONTEREY, CA	kion0823c	147.0
	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	7.7
	KEZT-CD	D34	DC	LIC	SACRAMENTO, CA	BLANK0000115780	128.5
	KFSF-DT	D34	DT	LIC	VALLEJO, CA	BLCDT20100513ABB	7.7
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
28939.2	7,588,288	24035.4	6,758,490	22952.1	6,584,105	22868.0	6,584,045
							0.37
Undesired			Total IX	Unique IX, before	Unique IX, after		
KION-TV D32 DT BL	100.2		7,864	100.2	7,864		
KION0823C D32 DT CP	184.3		7,924			184.3	7,924
KCNS D32 DT LIC	640.5		141,105	194.9	77,844	194.9	77,844
KEZT-CD D34 DC LIC	319.0		25,452	315.0	25,416	315.0	25,416
KFSF-DT D34 DT LIC	469.2		63,225	27.6	0	27.6	0

Interference to BLANK0000108766 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKPX-TV	D33	DT	LIC	SAN JOSE, CA	BLANK0000108766	
Undesireds:	KION-TV	D32	DT	BL	MONTEREY, CA	DTVBL26249	147.0 km
	KION0823C	D32	DT	CP	MONTEREY, CA	kion0823c	147.0
	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	7.7
	KEZT-CD	D34	DC	LIC	SACRAMENTO, CA	BLANK0000115780	128.5
	KFSF-DT	D34	DT	CP	VALLEJO, CA	BLANK0000035847	7.7
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
28939.2	7,588,288	24035.4	6,758,490	22900.5	6,577,063	22816.4	6,577,003
							0.37
Undesired			Total IX	Unique IX, before	Unique IX, after		
KION-TV D32 DT BL	100.2		7,864	100.2	7,864		
KION0823C D32 DT CP	184.3		7,924			184.3	7,924
KCNS D32 DT LIC	640.5		141,105	75.5	41,527	75.5	41,527
KEZT-CD D34 DC LIC	319.0		25,452	315.0	25,416	315.0	25,416
KFSF-DT D34 DT CP	640.2		106,584	79.2	7,042	79.2	7,042

Interference to proposal scenario 1
12.00% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KION0823C	D32	DT	CP	MONTEREY, CA	kion0823c	
Undesireds:	KTVU	D31	DT	LIC	OAKLAND, CA	BLANK0000212413	154.4 km
	KVPT	D32	DT	LIC	FRESNO, CA	BLANK0000063002	210.0
	KCNS	D32	DT	LIC	SAN FRANCISCO, CA	BLANK0000108769	154.4
	K32LT-D	D32	DC	LIC	SAN LUIS OBISPO, CA	BLANK0000068200	156.8
	KKPX-TV	D33	DT	LIC	SAN JOSE, CA	BLANK0000108766	147.0
Service area	Terrain-limited		IX-free		Percent IX		
29131.8	2,601,475	19363.4	948,146	17832.5	834,361	7.91	12.00

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Undesired		Total	IX		Unique	IX	Prcnt	Unique	IX
KTVU D31 DT LIC	107.7	83,757	0.0		0	0.00	0.00		
KVPT D32 DT LIC	303.5	241	183.7		30	0.95	0.00		
KCNS D32 DT LIC	1211.6	111,838	940.1		25,060	4.86	2.64		
K32LT-D D32 DC LIC	179.7	3,118	115.8		38	0.60	0.00		
KKPX-TV D33 DT LIC	115.7	82,366	12.0		1,771	0.06	0.19		
