



KSNV - LAS VEGAS, NEVADA OCTOBER 2023 APPENDIX B 42 kW - Channel 33 STA Longley-Rice Interference Analysis

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KSNV 33 STA APP, Model: Longley-Rice
Start: 2023.10.17 13:56:54

Study created: 2023.10.17 13:56:53

Study build station data: LMS TV 2023-10-16

Proposal: KSNV D33 DT STA LAS VEGAS, NV
File number: BLANK0000185345
Facility ID: 10179
Station data: LMS TV 2023-10-16
Record ID: 25076ff37f210d34017f2da4fdc3214c
Country: U.S.
Zone: II

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

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	DKDLU-LP	N26	TX	APP	ST. GEORGE, UT	BLTTL19961024JB	173.7 km
No	K32DW-D	D32	LD	LIC	CHLORIDE, AZ	BLDTT20130308AAU	101.5
Yes	KMCC	D32	DD	LIC	LAUGHLIN, NV	BLANK0000216254	56.8
No	K32OB-D	D32	LD	LIC	PANACA, NV	BLANK0000078476	168.4
No	K32MH-D	D32	LD	LIC	WASHINGTON, ETC., UT	BLANK0000063182	162.3
No	K33NZ-D	D33	LD	LIC	COTTONWOOD, AZ	BLANK0000063233	300.3
Yes	K33OD-D	D33	LD	LIC	KINGMAN, AZ	BLANK0000071729	143.3
No	K33IY-D	D33	LD	LIC	LE CHEE, ETC., AZ	BLDTT20100610ADA	332.5
No	KTWV-DT	D33	DT	LIC	PHOENIX, AZ	BLANK0000186957	400.9
No	K33MD-D	D33	LD	LIC	YUMA, AZ	BLDTL20150206AAR	375.6
No	KBAK-TV	D33	DT	LIC	BAKERSFIELD, CA	BLCDT20060628ABK	329.2
No	KRVD-LD	N33+	TX	LIC	BANNING, CA	BLTTL20070103ACI	273.8
No	KDFX-CD	D33	DC	LIC	INDIO/PALM SPRINGS, CA	BLANK0000075037	271.2
No	KVVB-LD	D33	LD	LIC	LUCERNE VALLEY, CA	BLANK0000063260	258.7
No	K33ID-D	D33	LD	LIC	RIDGECREST, CA	BLDTT20080401AUW	248.4
No	KTBN-TV	D33	DT	LIC	SANTA ANA, CA	BLANK0000197815	341.3
Yes	K33OK-D	D33	LD	LIC	OVERTON, NV	BLANK0000137698	87.1
Yes	K33MJ-D	D33	LD	LIC	PAHRUMP, NV	BLANK0000063611	44.7
No	K33NQ-D	D33	LD	LIC	ALTON, UT	BLANK0000059967	267.5
No	K33OO-D	D33	LD	LIC	ANTIMONY, UT	BLANK0000072666	357.2
No	K33PF-D	D33	LD	LIC	BEAVER, ETC., UT	BLANK0000091257	342.5
No	K33EB-D	D33	LD	LIC	CEDAR CANYON, UT	BLDTT20090728ABU	260.6
No	K33OQ-D	D33	LD	LIC	ESCALANTE, UT	BLANK0000075947	362.1
No	K33PH-D	D33	LD	LIC	GARRISON, ETC., UT	BLANK0000125693	356.5
No	K33NT-D	D33	LD	LIC	KANAB, UT	BLANK0000060009	251.0
No	K33KF-D	D33	LD	LIC	KANARRAVILLE, ETC, UT	BLDTT20140430AAH	229.8
No	K33JE-D	D33	LD	LIC	MODENA, BERYL, ETC., UT	BLDTT20090728AEM	219.6
No	K33OZ-D	D33	LD	LIC	PAROWAN, ENOCH, ETC., UT	BLANK0000091224	272.3
No	K33JW-D	D33	LD	LIC	ROCKVILLE/SPRINGDALE, UT	BLDTT20081202AHI	217.4

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Yes	K33PC-D	D33	LD	LIC	SANTA CLARA, UT	BLANK0000064147	162.3
No	K33PD-D	D33	LD	LIC	TOQUERVILLE, HURRICA, UT	BLANK0000093337	210.2
No	K33HX-D	D33	LD	LIC	TROPIC & CANNONVILLE, UT	BLDTL20090708AJH	322.1
No	K34PE-D	D34	LD	LIC	DOLAN SPRINGS, AZ	BLANK0000071730	82.5
No	K34QY-D	D34	LD	LIC	GOLDEN VALLEY, AZ	BLANK0000193005	103.4
No	K34LI-D	D34	LD	LIC	JEAN, NV	BLDTT20101228ABS	45.7
No	K34ME-D	D34	LD	LIC	OVERTON, NV	BLANK0000137701	87.1
No	K34QJ-D	D34	LD	LIC	PANACA, NV	BLANK0000078477	168.8
No	K34OV-D	D34	LD	LIC	WASHINGTON, ETC., UT	BLANK0000063181	162.4
No	KVTE-LD	N35z	TX	LIC	LAS VEGAS, NV	BLTTL20040811AAP	7.6
No	XHCTTI	D33	DT	LIC	TIJUANA, BN	BLANKBPFS20160524AAY	431.4
No	LICITACIOND33		DT	LIC	SAN LUIS RIO COLORAD, SO	BLANKBPFSXXX0016XXX	393.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D33
Latitude: 36 0 27.30 N (NAD83)
Longitude: 115 0 26.90 W
Height AMSL: 1065.7 m
HAAT: 374.0 m
Peak ERP: 42.0 kW
Antenna: DIELECTRIC-TFU-8WB/VP-R S230 (ID 1004417) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.05

40.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	41.2 kW	535.1 m	89.6 km
45.0	28.4	502.7	84.8
90.0	13.1	292.3	67.0
135.0	2.01	369.2	61.1
180.0	5.91	285.4	62.4
225.0	3.64	154.7	51.9
270.0	21.2	373.7	75.7
315.0	34.1	475.3	84.6

Distance to Canadian border: 1444.1 km

Distance to Mexican border: 366.5 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 289.7 degrees Distance: 629.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 58.9 degrees Distance: 967.4 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%

Interference to BLANK0000216254 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMCC	D32	DD	LIC	LAUGHLIN, NV	BLANK0000216254	
Undesireds:	KSNV	D33	DT	STA	LAS VEGAS, NV	BLANK0000185345	56.8 km

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KAZF		D32	DT	LIC	FLAGSTAFF, AZ		BLANK0000221579		282.8	
Service area		Terrain-limited			IX-free, before		IX-free, after		Percent New IX	
39724.5	2,064,588	27086.9		2,010,201	26934.5	2,010,190	26582.2	2,010,050	1.31	0.01
Undesired				Total IX		Unique IX, before		Unique IX, after		
KSNV D33 DT STA		352.4		140			352.4		140	
KAZF D32 DT LIC		152.4		11	152.4	11	152.4		11	

Interference to BLANK0000071729 LIC scenario 1

Desired:	Call K33OD-D	Chan D33	Svc LD	Status LIC	City, State KINGMAN, AZ	File Number BLANK0000071729	Distance		
Undesireds:	KSNV	D33	DT	STA	LAS VEGAS, NV	BLANK0000185345	143.3 km		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8706.5	79,108	7098.9		63,027	7098.9	63,027	7082.9	63,027	0.23 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after			
KSNV D33 DT STA		16.1		0		16.1	0		

Interference to BLANK0000137698 LIC scenario 1

Desired:	Call K33OK-D	Chan D33	Svc LD	Status LIC	City, State OVERTON, NV	File Number BLANK0000137698	Distance		
Undesireds:	KSNV	D33	DT	STA	LAS VEGAS, NV	BLANK0000185345	87.1 km		
	KMCC	D32	DD	LIC	LAUGHLIN, NV	BLANK0000216254	107.9		
	K33OD-D	D33	LD	LIC	KINGMAN, AZ	BLANK0000071729	186.7		
	K33MJ-D	D33	LD	LIC	PAHRUMP, NV	BLANK0000063611	118.7		
	K33PC-D	D33	LD	LIC	SANTA CLARA, UT	BLANK0000064147	77.0		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2488.1	8,573	2185.4	8,567	2073.9	8,567	1974.3	8,567	4.80	0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
KSNV	D33	DT	STA	119.5	0	99.6		0	
KMCC	D32	DD	LIC	12.0	0	4.0	0	4.0	0
K33OD-D	D33	LD	LIC	4.0	0	4.0	0	0.0	0
K33MJ-D	D33	LD	LIC	8.0	0	0.0	0	0.0	0
K33PC-D	D33	LD	LIC	103.6	0	87.6	0	75.7	0

Interference to BLANK0000063611 LIC scenario 1

**IX: 8.28% interference caused

Desired:	Call K33MJ-D	Chan D33	Svc LD	Status LIC	City, State PAHRUMP, NV	File Number BLANK0000063611	Distance		
Undesireds:	KSNV	D33	DT	STA	LAS VEGAS, NV	BLANK0000185345	44.7 km		
	KMCC	D32	DD	LIC	LAUGHLIN, NV	BLANK0000216254	95.3		
	K33OD-D	D33	LD	LIC	KINGMAN, AZ	BLANK0000071729	174.9		
	K33OK-D	D33	LD	LIC	OVERTON, NV	BLANK0000137698	118.7		
	K33PC-D	D33	LD	LIC	SANTA CLARA, UT	BLANK0000064147	195.7		
	K34LI-D	D34	LD	LIC	JEAN, NV	BLDTT20101228ABS	8.4		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4338.2	387,190	3664.6	296,523	3022.6	60,134	2914.4	55,156	3.58	8.28
Undesired				Total IX		Unique IX, before		Unique IX, after	
KSNV	D33	DT	STA	452.9	239,881	108.3	4,978		
KMCC	D32	DD	LIC	212.3	234,834	124.1	162,470	0.0	0
K33OD-D	D33	LD	LIC	144.2	2,824	92.1	0	28.0	0
K33OK-D	D33	LD	LIC	28.1	0	4.0	0	4.0	0

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K33PC-D D33 LD LIC	124.3	44,276	40.1	80	12.0	20
K34LI-D D34 LD LIC	309.4	64,352	249.3	1,432	237.2	1,432

Interference to BLANK0000064147 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K33PC-D	D33	LD	LIC	SANTA CLARA, UT	BLANK0000064147	
Undesireds:	KSNV	D33	DT	STA	LAS VEGAS, NV	BLANK0000185345	162.3 km
	K33OK-D	D33	LD	LIC	OVERTON, NV	BLANK0000137698	77.0
	K33PD-D	D33	LD	LIC	TOQUERVILLE, HURRICA, UT	BLANK0000093337	55.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6271.0	132,171	5731.3	128,747	5455.6	93,327	5435.6 93,324	0.37 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KSNV D33 DT STA		20.0	3			20.0 3	
K33OK-D D33 LD LIC		91.7	0	91.7	0	91.7 0	
K33PD-D D33 LD LIC		184.0	35,420	184.0	35,420	184.0 35,420	

Interference to proposal scenario 1
0.63% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSNV	D33	DT	STA	LAS VEGAS, NV	BLANK0000185345	
Undesireds:	KMCC	D32	DD	LIC	LAUGHLIN, NV	BLANK0000216254	56.8 km
Service area		Terrain-limited		IX-free		Percent IX	
16851.7	1,925,667	10336.8	1,912,982	10035.8	1,901,007	2.91 0.63	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KMCC D32 DD LIC		301.0	11,975	301.0	11,975	2.91 0.63	