

INTERFERENCE ANALYSIS FOR PROPOSED K50LG-D, PAHRUMP, NV, CHANNEL 18, DISPLACEMENT FACILITY

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: k50lg18pl, Model: Longley-Rice

Study build station data: LMS TV 2018-05-18

Proposal: K50LG18Pl D18 LD APP PAHRUMP, NV
File number: k50lg18pl
Facility ID: 48809
Station data: User record
Record ID: 2795
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K49EU-D	D17	LD	APP	CHLORIDE, AZ	BLANK0000053732	134.7 km
No	K17BN-D	D17	LD	LIC	NEEDLES, CA	BLDTT20130308ACD	144.3
No	KEN-CD	D17	DC	LIC	LAS VEGAS, NV	BLDTA20100624AKB	44.4
Yes	K17CL-D	D17	LD	LIC	PAHRUMP, NV	BLDTT20120510ACN	51.6
No	K18CB-D	D18	LD	LIC	BULLHEAD CITY, AZ	BLDTT20140604ABM	104.0
No	K18DD-D	D18	LD	LIC	CAMP VERDE, AZ	BLDTL20150202AAM	337.2
No	K41FT-D	D18	LD	APP	KINGMAN, AZ	BLANK0000040077	173.7
No	K18JL-D	D18	LD	CP	PHOENIX, AZ	BLANK0000024588	428.1
No	NEW	D18	LD	APP	SALOME, AZ	BNPDTL20100514AEP	321.4
No	K18HD-D	D18	LD	LIC	BAKERSFIELD, CA	BLDTL20130128ACY	298.5
No	KPSP-CD	D18	DC	CP	CATHEDRAL CITY, CA	BLANK0000034073	247.6
No	K18IM-D	D18	LD	LIC	Daggett, CA	BLANK0000004601	174.0
No	K18LI-D	D18	LD	CP	INDIO, CA	BMJADTL20100520ADG	259.7
Yes	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK0000035764	303.3
No	KSCI	D18	DD	APP	LONG BEACH, CA	BLANK0000036118	303.3
Yes	KSCI	D18	DT	LIC	LONG BEACH, CA	BMLCDT20140206ACV	303.3
No	KJHP-LP	D18	LD	LIC	MORONGO VALLEY, CA	BLDTL20131106AUL	247.6
No	K18LE-D	D18	LD	CP	NEWBERRY SPRINGS, CA	BDCCDTT20120105ABN	174.0
No	KUSI-TV	D18	DT	LIC	SAN DIEGO, CA	BLANK0000005158	385.5
No	KFAZ-CA	D18	DC	LIC	VISALIA, CA	BLANK0000001548	350.2
No	K18KA-D	D18	LD	LIC	ELY, NV	BLDTT20120119AEI	364.6
Yes	KHMP-LD	D18	LD	LIC	LAS VEGAS, NV	BLANK0000010687	44.4
No	K18GG-D	D18	LD	LIC	MINA / LUNING, NV	BLDTT20110311ABV	353.1
Yes	K18IP-D	D18	LD	LIC	OVERTON, NV	BLDTT20100324ABL	119.2
No	K42EK-D	D18	LD	APP	ROUND MOUNTAIN, NV	BLANK0000052602	328.2
No	K41GE-D	D18	LD	APP	CEDAR CITY, UT	BLANK0000052597	288.1
No	K36JA-D	D18	LD	APP	ENTERPRISE, UT	BLANK0000050581	240.8
No	K27KD-D	D18	LD	APP	HATCH, UT	BLANK0000052974	337.3
No	K47MD-D	D18	LD	APP	HENRIEVILLE, UT	BLANK0000052997	358.6
No	K18DN-D	D18	LD	LIC	KANAB, UT	BLDTT20100610ACL	292.7
No	K18ET-D	D18	LD	LIC	ORDERVILLE, UT	BLDTT20090727AAI	294.8
No	K43KL-D	D18	LD	APP	PANGUITCH, UT	BLANK0000053018	340.4
No	K18FU-D	D18	LD	LIC	RURAL BEAVER COUNTY, UT	BLDTT20061115ABB	345.5
No	K36KJ-D	D18	LD	APP	RURAL GARFIELD, UT	BLANK0000053083	379.0
Yes	KUEW	D18	DT	LIC	ST. GEORGE, UT	BLEDT20020826ABB	211.3
No	KMOH-TV	D19	DT	LIC	KINGMAN, AZ	BLCDT20060707ABK	144.8
No	KHDF-CD	D19	DC	LIC	LAS VEGAS, NV	BLDTA20140912AAV	44.4
No	KTTB-LD	D19	LD	CP	MESQUITE, NV	BNPDTL20090825ADH	161.2
No	K38PC-D	D19	LD	APP	OVERTON, NV	BLANK0000051733	119.2
Yes	K19BU-D	D19	LD	LIC	PAHRUMP, NV	BLDTT20120502ABR	51.6
No	K22DR	N22	TX	LIC	LAUGHLIN, NV	BLTT19911118JJ	103.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18

Mask: Stringent

Latitude: 35 57 22.00 N (NAD83)

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Longitude: 115 29 43.70 W
Height AMSL: 2526.8 m
HAAT: 0.0 m
Peak ERP: 0.520 kW
Antenna: SCA-K723147 (ID 93807) 0.0 deg
Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.044 kW	729.1 m	35.6 km
45.0	0.000	1323.3	15.2
90.0	0.000	1310.6	6.7
135.0	0.000	1082.9	10.5
180.0	0.003	972.0	22.1
225.0	0.011	1190.8	32.4
270.0	0.018	1205.0	35.5
315.0	0.059	964.0	40.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 1097 m

Distance to Canadian border: 1449.9 km

Distance to Mexican border: 364.5 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 291.3 degrees Distance: 590.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 59.6 degrees Distance: 1008.0 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

Study cell size: 1.00 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 BLDTT20120510ACN LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K17CL-D	D17	LD	LIC	PAHRUMP, NV	BLDTT20120510ACN	
Undesireds:	K50LG18P1	D18	LD	APP	PAHRUMP, NV	k50lg18p1	51.6 km
	KODG-LD	D17	LD	LIC	PALM SPRINGS, CA	BLANK0000022353	260.8
	K17GJ-D	D17	LD	LIC	Twentynine Palms, CA	BLANK0000004553	236.6
	K17JQ	N17z	TX	LIC	ST. GEORGE, UT	BLTTL20121207ACG	235.0
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	939.7	36,313	909.5	36,296	909.5	36,296	0.33 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
K50LG18P1 D18 LD APP		3.0	0		3.0	0	

Interference to BLANK0000035764 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK0000035764	
Undesireds:	K50LG18P1	D18	LD	APP	PAHRUMP, NV	k50lg18p1	303.3 km
	KNSD	D17	DT	CP	SAN DIEGO, CA	BLANK0000042429	198.3
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLDTA20141219ABP	152.6
	KPSP-CD	D18	DC	CP	CATHEDRAL CITY, CA	BLANK0000034073	154.8
	KUSI-TV	D18	DT	LIC	SAN DIEGO, CA	BLANK0000005158	198.3
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	146.0

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KPBS	D19	DT	CP	SAN DIEGO, CA	BLANK0000027963	198.2		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
30197.7	16,814,383	21382.9	15,694,212	19143.8	15,248,677	19142.7	15,248,677	0.01 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after		
K50LG18P1	D18 LD APP	3.0	0			1.0	0	
KNSD	D17 DT CP	35.8	2,845	0.0	0	0.0	0	
KPSP-CD	D18 DC CP	36.6	10,543	31.6	9,923	31.6	9,923	
KUSI-TV	D18 DT LIC	2205.5	435,612	2164.8	431,132	2162.8	431,132	
KPBS	D19 DT CP	37.8	3,860	1.0	0	1.0	0	

Interference to BMLCDT20140206ACV LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	KSCI	D18	DT	LIC	LONG BEACH, CA	BMLCDT20140206ACV			
Undesireds:	K50LG18P1	D18	LD	APP	PAHRUMP, NV	k50lg18p1	303.3 km		
	KNSD	D17	DT	CP	SAN DIEGO, CA	BLANK0000042429	198.3		
	KSBB-CD	D17	DC	LIC	SANTA BARBARA, CA	BLDTA20141219ABP	152.6		
	KPSP-CD	D18	DC	CP	CATHEDRAL CITY, CA	BLANK0000034073	154.8		
	KUSI-TV	D18	DT	LIC	SAN DIEGO, CA	BLANK0000005158	198.3		
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	146.0		
	KPBS	D19	DT	CP	SAN DIEGO, CA	BLANK0000027963	198.2		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
41194.6	17,436,525	31668.7	16,284,146	27138.5	15,818,493	27134.5	15,818,493	0.01	0.00

Interference to BLANK0000010687 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	KHMP-LD	D18	LD	LIC	LAS VEGAS, NV	BLANK0000010687			
Undesireds:	K50LG18P1	D18	LD	APP	PAHRUMP, NV	k50lg18p1	44.4 km		
	KEEN-CD	D17	DC	LIC	LAS VEGAS, NV	BLDTA20100624AKB	0.1		
	K18CB-D	D18	LD	LIC	BULLHEAD CITY, AZ	BLDTT20140604ABM	88.0		
	K41FT-D	D18	LD	APP	KINGMAN, AZ	BLANK0000040077	143.4		
	K18IP-D	D18	LD	LIC	OVERTON, NV	BLDTT20100324ABL	86.8		
	K38PC-D	D19	LD	APP	OVERTON, NV	BLANK0000051733	86.8		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
9072.7	1,908,302	6516.1	1,906,018	6166.0	1,897,258	6116.7	1,897,258	0.80	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
	K50LG18P1	D18	LD	APP	81.5	1,831			
	KEEN-CD	D17	DC	LIC	47.1	625	32.1	625	
	K18CB-D	D18	LD	LIC	99.5	0	70.5	0	
	K41FT-D	D18	LD	APP	167.0	8,135	120.8	8,135	
	K18IP-D	D18	LD	LIC	93.6	0	67.4	0	
	K38PC-D	D19	LD	APP	14.1	0	0.0	0	

Interference to BLDTT20100324ABL LIC scenario 1

Desired:	Call K18IP-D	Chan D18	Svc LD	Status LIC	City, State OVERTON, NV	File Number BLDTT20100324ABL	Distance
Undesireds:	K50LG18P1	D18	LD	APP	PAHRUMP, NV	k50lg18p1	119.2 km
	K17JQ	N17z	TX	LIC	ST. GEORGE, UT	BLTTL20121207ACG	94.5
	K41FT-D	D18	LD	APP	KINGMAN, AZ	BLANK0000040077	186.7
	KHMP-LD	D18	LD	LIC	LAS VEGAS, NV	BLANK0000010687	86.8
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX

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2772.9	8,589	2412.4	8,567	2288.8	8,567	2287.8	8,567	0.04	0.00
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Undesired		Total IX	Unique IX, before	Unique IX, after
K50LG18P1 D18 LD APP	1.0	0		1.0
K41FT-D D18 LD APP	16.0	0	13.0	0
KHMP-LD D18 LD LIC	110.5	0	107.5	0

Interference to BLEDT20020826ABB LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUEW	D18	DT	LIC	ST. GEORGE, UT	BLEDT20020826ABB	
Undesireds:	K50LG18P1	D18	LD	APP	PAHRUMP, NV	k50lg18p1	211.3 km
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	5168.3	132,187	3607.4	121,294	3607.4	121,294	0.03 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K50LG18P1 D18 LD APP		1.0		0		1.0	0

Interference to BLDTT20120502ABR LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K19BU-D	D19	LD	LIC	PAHRUMP, NV	BLDTT20120502ABR	
Undesireds:	K50LG18P1	D18	LD	APP	PAHRUMP, NV	k50lg18p1	51.6 km
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	250.0
	K20MC-D	D20	LD	CP	PAHRUMP, NV	BLANK0000001309	51.5
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	913.5	36,313	882.2	36,296	869.1	36,296	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K50LG18P1 D18 LD APP		1.0		0		0.0	0
K20MC-D D20 LD CP		13.1		0	13.1	12.1	0

Interference to proposal scenario 1 13.08% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K50LG18P1	D18	LD	APP	PAHRUMP, NV	k50lg18p1	
Undesireds:	KEEN-CD	D17	DC	LIC	LAS VEGAS, NV	BLDTA20100624AKB	44.4 km
	K17CL-D	D17	LD	LIC	PAHRUMP, NV	BLDTT20120510ACN	51.6
	K18CB-D	D18	LD	LIC	BULLHEAD CITY, AZ	BLDTT20140604ABM	104.0
	K41FT-D	D18	LD	APP	KINGMAN, AZ	BLANK00000040077	173.7
	KSCI	D18	DT	CP	LONG BEACH, CA	BLANK00000035764	303.3
	KHMP-LD	D18	LD	LIC	LAS VEGAS, NV	BLANK00000010687	44.4
	K18IP-D	D18	LD	LIC	OVERTON, NV	BLDTT20100324ABL	119.2
	K19BU-D	D19	LD	LIC	PAHRUMP, NV	BLDTT20120502ABR	51.6
	Service area		Terrain-limited		IX-free	Percent IX	
	2522.2	50,808	2039.1	25,931	1853.2	22,539	9.12 13.08

Undesired		Total IX	Unique IX	Prct Unique IX
KEEN-CD D17 DC LIC	31.3	0	0.0	0.00
K17CL-D D17 LD LIC	22.2	3,386	0.0	0.00
K18CB-D D18 LD LIC	61.6	0	13.1	0.64
K41FT-D D18 LD APP	87.0	0	21.3	1.04
KHMP-LD D18 LD LIC	117.2	6	30.3	1.49
K18IP-D D18 LD LIC	23.3	0	3.0	0.15
