

# INTERFERENCE ANALYSIS FOR PROPOSED K42CP-D, PEACH SPRINGS, AZ, CHANNEL 36

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: K42CP-D(36), Model: Longley-Rice

Study build station data: LMS TV 2018-04-11 #98

Proposal: K42CP-D D36 LD APP PEACH SPRINGS, AZ  
File number: K42CP-D(36)  
Facility ID: 43404  
Station data: User record  
Record ID: 2734  
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	K21GE	N21-	TX	LIC	CAMP VERDE, AZ	BLTT20040830AAI	184.9 km
No	K22DR	N22	TX	LIC	LAUGHLIN, NV	BLTT19911118JJ	123.0
No	K42AC-D	D35	LD	APP	COTTONWOOD, ETC., AZ	BLANK0000035577	152.3
No	K35EI-D	D35	LD	LIC	DOLAN SPRINGS, AZ	BLDTT20130308AAY	74.0
No	K35FH	N35+	TX	LIC	FLAGSTAFF, AZ	BLTT19990706JG	168.3
No	K50CY-D	D35	LD	APP	KINGMAN, AZ	BLANK0000040081	66.3
No	K35EE-D	D35	LD	LIC	MOCCASIN, AZ	BLDTT20130308ACC	162.0
No	KVTE-LP	D35	LD	LIC	LAS VEGAS, NV	BLDTL20140611ADE	175.2
No	KVTE-LP	D35	LD	CP	LAS VEGAS, NV	BMPDTL20140414ACB	175.2
No	KVTE-LP	N35z	TX	LIC	LAS VEGAS, NV	BLTTL20040811AAP	152.3
No	NEW	D35	LD	APP	MESQUITE, NV	BMJADTL20100430ABO	154.7
No	K36AE-D	D36	LD	LIC	CLARKDALE, AZ	BLDTT20130718AAQ	152.3
Yes	KKAX-LP	N36	TX	LIC	HILLTOP, AZ	BLTTL20030722AAR	66.3
Yes	KKAX-LP	D36	LD	CP	HILLTOP, AZ	BDFCDTL20110907AMG	66.3
No	K36DU	N36	TX	LIC	LAKE HAVASU CITY, ET, AZ	BLTTL19960308IA	134.4
No	K36DU	D36	LD	CP	LAKE HAVASU CITY, ET, AZ	BDFCDTA20110616ABG	134.5
No	K36FZ-D	D36	LD	LIC	MEADVIEW, AZ	BLDTT20130308ABZ	70.2
No	KAZT-CD	D36	DC	LIC	PHOENIX, AZ	BLDTA20100120ACL	275.1
No	KUVE-CD	D36-	DC	CP	TUCSON, AZ	BLANK0000034324	423.2
No	K36JH-D	D36	LD	LIC	BARSTOW, CA	BLANK0000022335	365.8
No	K36JH-D	N36+	TX	LIC	BARSTOW, CA	BLTTL20090401AXW	365.8
No	KAJB	D36	DT	LIC	CALIPATRIA, CA	BLCDT20090320AAI	304.6
No	KEVC-CD	D36	DC	LIC	INDIO, CA	BLANK0000001550	331.2
No	KNBC	D36	DD	APP	LOS ANGELES, CA	BMPCDT20100811ABJ	446.8
No	KNBC	D36	DT	LIC	LOS ANGELES, CA	BLCDT20070820ACK	446.8
No	K36GO	N36-	TX	LIC	MORONGO VALLEY, CA	BLTT20060331AEU	327.9
No	K36GO	D36	LD	APP	MORONGO VALLEY, CA	BDFCDTT20120110ADH	327.9
No	KVES-LD	D36	LD	LIC	PALM SPRINGS, CA	BLANK0000005156	319.9
No	KSKT-CD	D36	DC	CP	SAN MARCOS, CA	BLANK0000035748	429.6
No	K45AL-D	D36	LD	APP	CALIENTE, NV	BLANK0000052496	250.9
No	K43FO-D	D36	DC	CP	LAS VEGAS, NV	BLANK0000031035	151.4
No	K36BQ-D	D36	LD	LIC	PAHRUMP, NV	BLDTT20110825ABT	241.1
No	K45AO-D	D36	LD	APP	PIOCHE, NV	BLANK0000052497	280.4
No	K50DA-D	D36	LD	APP	URSINE, NV	BLANK0000052498	281.0
No	K38MS-D	D36	LD	APP	ALTON, ETC., UT	BLANK0000029508	219.4
No	K36IG-D	D36	LD	LIC	ANTIMONY, UT	BLDTT20090519ADD	319.1
No	K36FM-D	D36	LD	LIC	BEAVER ETC., UT	BLDTT20100604AFT	331.8
No	K36JA-D	D36	LD	LIC	ENTERPRISE, UT	BLDTT20100119ACM	231.3
No	K36FV-D	D36	LD	LIC	HATCH, UT	BLDTT20090814AAW	256.0
No	K36KQ-D	D36	LD	LIC	PANGUITCH, UT	BLDTT20120827AAL	268.4
No	K36AI-D	D36	LD	LIC	PAROWAN, ENOCH, ETC., UT	BLDTT20090612ADC	259.5
No	K36CB-D	D36	LD	LIC	RICHFIELD, ETC., UT	BLDTT20090727AAD	365.2
No	K36KJ-D	D36	LD	LIC	RURAL GARFIELD, UT	BLDTT20100610ADP	283.1
No	K36FT-D	D36	LD	LIC	SANTA CLARA, ETC., UT	BLDTT20100720ACA	184.4
No	K36KV-D	D36	LD	LIC	TEASDALE, ETC., UT	BLDTT20101206AAT	349.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D36

Mask: Stringent  
Latitude: 35 32 9.90 N (NAD83)  
Longitude: 113 25 54.70 W  
Height AMSL: 1511.1 m (Adjusted based on actual ground elevation calculation)  
HAAT: 0.0 m  
Peak ERP: 0.072 kW  
Antenna: SCA-4DR-4S (ID 20748) 180.0 deg  
Elev Pattnr: Generic

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50.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	305.3 m	8.8 km
45.0	0.000	-90.9	3.4
90.0	0.000	-114.5	2.4
135.0	0.025	-123.0	6.8
180.0	0.072	-86.1	8.8
225.0	0.026	126.7	13.8
270.0	0.000	99.5	2.7
315.0	0.000	122.6	2.6

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 30 m

Distance to Canadian border: 1496.3 km

Distance to Mexican border: 334.8 km

Conditions at FCC monitoring station: Douglas AZ  
Bearing: 141.0 degrees    Distance: 568.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 52.2 degrees    Distance: 879.7 km

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 BLTTL20030722AAR LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKAX-LP	N36	TX	LIC	HILLTOP, AZ	BLTTL20030722AAR	
Undesireds:	K42CP-D	D36	LD	APP	PEACH SPRINGS, AZ	K42CP-D(36)	66.3 km
	K50CY-D	D35	LD	APP	KINGMAN, AZ	BLANK0000040081	0.0
	K36DU	N36	TX	LIC	LAKE HAVASU CITY, ET, AZ	BLTTL19960308IA	68.1
	K36FZ-D	D36	LD	LIC	MEADVIEW, AZ	BLDTT20130308ABZ	88.6
	K36JH-D	D36	LD	LIC	BARSTOW, CA	BLANK0000022335	313.4
	KAJB	D36	DT	LIC	CALIPATRIA, CA	BLCDT20090320AAI	241.2
	K36GO	N36-	TX	LIC	MORONGO VALLEY, CA	BLTT20060331AEU	266.8
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1575.7	58,279	1176.6	55,370	1061.0	53,090	1058.0    53,090	0.28    0.00
Undesired			Total IX	Unique IX, before		Unique IX, after	
K42CP-D D36 LD APP	6.0	0		3.0	0		
K50CY-D D35 LD APP	1.0	0	0.0	0	0.0	0	
K36DU N36 TX LIC	9.0	0	5.0	0	5.0	0	
K36FZ-D D36 LD LIC	108.7	2,280	104.7	2,280	103.7	2,280	
KAJB D36 DT LIC	2.0	0	1.0	0	0.0	0	

## ----- Interference to BLTTL20030722AAR LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKAX-LP	N36	TX	LIC	HILLTOP, AZ	BLTTL20030722AAR	
Undesireds:	K42CP-D	D36	LD	APP	PEACH SPRINGS, AZ	K42CP-D(36)	66.3 km
	K50CY-D	D35	LD	APP	KINGMAN, AZ	BLANK0000040081	0.0
	K36DU	D36	LD	CP	LAKE HAVASU CITY, ET, AZ	BDFCDTA20110616ABG	68.3
	K36FZ-D	D36	LD	LIC	MEADVIEW, AZ	BLDTT20130308ABZ	88.6
	K36JH-D	D36	LD	LIC	BARSTOW, CA	BLANK0000022335	313.4
	KAJB	D36	DT	LIC	CALIPATRIA, CA	BLCDT20090320AAI	241.2
	K36GO	N36-	TX	LIC	MORONGO VALLEY, CA	BLTT20060331AEU	266.8
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1575.7	58,279	1176.6	55,370	1065.0	53,090	1062.0    53,090	0.28    0.00
Undesired			Total IX	Unique IX, before		Unique IX, after	
K42CP-D D36 LD APP	6.0	0		3.0	0		
K50CY-D D35 LD APP	1.0	0	0.0	0	0.0	0	
K36DU D36 LD CP	2.0	0	1.0	0	1.0	0	
K36FZ-D D36 LD LIC	108.7	2,280	106.7	2,280	105.7	2,280	
KAJB D36 DT LIC	2.0	0	2.0	0	1.0	0	

# INTERFERENCE ANALYSIS FOR PROPOSED K42CP-D, PEACH SPRINGS, AZ, CHANNEL 36

## ----- Interference to BDFCDTL20110907AMG CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKAX-LP	D36	LD	CP	HILLTOP, AZ	BDFCDTL20110907AMG	
Undesireds:	K42CP-D	D36	LD	APP	PEACH SPRINGS, AZ	K42CP-D(36)	66.3 km
	K36DU	N36	TX	LIC	LAKE HAVASU CITY, ET, AZ	BLTTTL19960308IA	68.1
	K36FZ-D	D36	LD	LIC	MEADVIEW, AZ	BLDTT20130308ABZ	88.6
	K36JH-D	D36	LD	LIC	BARSTOW, CA	BLANK0000022335	313.4
	KAJB	D36	DT	LIC	CALIPATRIA, CA	BLCDT20090320AAI	241.2
	K36GO	N36-	TX	LIC	MORONGO VALLEY, CA	BLTT20060331AEU	266.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
2842.2 53,220		2638.2		52,144		2556.4 50,043	0.39 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K42CP-D D36 LD APP		10.0		0		10.0 0	
K36FZ-D D36 LD LIC		59.8		2,101		58.8 2,101	
KAJB D36 DT LIC		13.0		0		12.0 0	

## ----- Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CP-D	D36	LD	APP	PEACH SPRINGS, AZ	K42CP-D(36)	
Undesireds:	KKAX-LP	N36	TX	LIC	HILLTOP, AZ	BLTTTL20030722AAR	66.3 km
	K36DU	N36	TX	LIC	LAKE HAVASU CITY, ET, AZ	BLTTTL19960308IA	134.4
Service area		Terrain-limited		IX-free		Percent IX	
137.1 965		116.2 965		112.2 965		3.42 0.00	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KKAX-LP N36 TX LIC		4.0		0		3.42 0.00	

## ----- Interference to proposal scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CP-D	D36	LD	APP	PEACH SPRINGS, AZ	K42CP-D(36)	
Undesireds:	KKAX-LP	D36	LD	CP	HILLTOP, AZ	BDFCDTL20110907AMG	66.3 km
	K36DU	N36	TX	LIC	LAKE HAVASU CITY, ET, AZ	BLTTTL19960308IA	134.4
Service area		Terrain-limited		IX-free		Percent IX	
137.1 965		116.2 965		102.3 948		11.97 1.76	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KKAX-LP D36 LD CP		13.9		17		11.97 1.76	