

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Yuma31d15kwF, Model: Longley-Rice

Start: 2021.07.12 14:28:19

Study created: 2021.07.12 14:28:19

Study build station data: LMS TV 2021-07-09

Proposal: K40NW-D D31 LD APP YUMA, AZ

Facility ID: 130355

Station data: User record

Record ID: 515

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K24FA	N24+	TX	LIC	BLYTHE, CA	BLTT20020311ABC	117.0 km
No	K28FM	N28z	TX	LIC	YUMA, AZ	BLTTL20001006AAL	32.6
No	K30QT-D	D30	LD	CP	PARKER, AZ	BNPDTL20100514AEG	136.1
No	K30NQ-D	D30	LD	CP	SENTINEL, AZ	BNPDTL20100510AAT	139.4
No	K30QU-D	D30	LD	CP	DESERT CENTER, CA	BNPDTL20100514ACU	137.7
No	K31LZ	N31	TX	CP	CAMP VERDE, AZ	BMPTTL20130125AAD	334.6
No	K31LZ	N31	TX	LIC	CAMP VERDE, AZ	BLTTL20130125AAC	334.6
No	K31PA-D	D31	LD	LIC	DOLAN SPRINGS, AZ	BLANK0000071728	340.7
No	K31NV-D	D31	LD	LIC	GLOBE-MIAMI, AZ	BLANK0000064182	363.6
No	K31BI-D	D31	LD	LIC	KINGMAN, AZ	BLDTT20130308ABE	293.5
No	K31GZ-D	D31	LD	LIC	LAKE HAVASU CITY, AZ	BLDTT20130308ABQ	229.8
Yes	KPPX-TV	D31	DT	LIC	TOLLESON, AZ	BLANK0000035245	257.0
No	K31NF-D	D31	LD	LIC	VERDE VALLEY, ETC., AZ	BLANK0000061922	334.0
No	K31NE-D	D31	LD	LIC	WILLIAMS, AZ	BLANK0000058812	371.3
Yes	K31FE	N31-	TX	LIC	BLYTHE, CA	BLTT20011203AMO	117.0
Yes	KCBS-TV	D31	DT	LIC	LOS ANGELES, CA	BLANK0000071647	368.4
No	K31HY-D	D31	LD	LIC	NEEDLES, ETC., CA	BLDTT20130308ACE	277.7
No	NEW	D31	LD	CP	PALM SPRINGS, CA	BNPDTL20090825BLV	229.0

Yes	KRET-CD	D31	DC	LIC	PALM SPRINGS, CA	BLDTA20140702ADK	221.2
No	KTCD-LP	D31+	LD	CP	SAN DIEGO, CA	BLANK0000064192	222.7
No	KSDY-LD	D31	LD	LIC	San Diego, CA	BLANK0000068967	214.4
No	K31AD-D	N31	TX	LIC	VICTORVILLE, ETC., CA	BLTT19900108IL	334.7
No	K31AD-D	D31	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000143998	334.7
No	K32OP-D	D32	LD	CP	ROLL, AZ	BNPDTL20100510AAQ	107.1
Yes	K32OQ-D	D32	LD	CP	YUMA, AZ	BNPDTL20100510AAJ	16.7
No	K32OS-D	D32	LD	CP	DESERT CENTER, CA	BNPDTL20100514ACN	158.5
No	KESE-LD	N35	TX	LIC	YUMA, AZ	BLTTL20001117AAJ	13.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31
 Mask: Full Service
 Latitude: 32 32 55.10 N (NAD83)
 Longitude: 114 39 9.80 W
 Height AMSL: 86.0 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: Omnidirectional
 Elev Pattn: Generic

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	43.4 m	33.7 km
45.0	15.0	23.9	29.9
90.0	15.0	14.2	29.9
135.0	15.0	15.8	29.9
180.0	15.0	33.6	30.8
225.0	15.0	36.9	31.8
270.0	15.0	54.5	36.5
315.0	15.0	53.6	36.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 34 m

Distance to Canadian border: 1828.6 km

**Proposal is within coordination distance of Mexican border

Distance to Mexican border: 10.7 km

Conditions at FCC monitoring station: Douglas AZ

Bearing: 102.6 degrees Distance: 485.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 42.3 degrees Distance: 1188.6 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 BLANK0000035245 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPPX-TV	D31	DT	LIC	TOLLESON, AZ	BLANK0000035245	
Undesireds:	K40NW-D	D31	LD	APP	YUMA, AZ		257.0 km
	KUAT-TV	D30	DT	LIC	TUCSON, AZ	BLEDT20040727ABR	161.9
	KOLD-TV	D32	DT	LIC	TUCSON, AZ	BLCDT20030911AAI	162.0
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
41723.7	4,187,103	33273.3	4,170,170	33166.5	4,170,166	33163.5 4,170,166	0.01 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K40NW-D D31 LD APP	3.0			0		3.0 0	

KUAT-TV D30 DT LIC	105.9	4	89.8	4	89.8	4
KOLD-TV D32 DT LIC	17.1	0	1.0	0	1.0	0

Interference to BLTT20011203AMO LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K31FE	N31-	TX	LIC	BLYTHE, CA	BLTT20011203AMO	
Undesireds:	K40NW-D	D31	LD	APP	YUMA, AZ		117.0 km
	K31LZ	N31	TX	CP	CAMP VERDE, AZ	BMPTTL20130125AAD	249.1
	K31HY-D	D31	LD	LIC	NEEDLES, ETC., CA	BLDTT20130308ACE	162.9
	K31AD-D	N31	TX	LIC	VICTORVILLE, ETC., CA	BLTT19900108IL	294.1
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	1471.1 14,315		1379.9	13,921	1377.9 13,921	1374.9 13,921	0.22 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
K40NW-D D31 LD APP		3.0	0		3.0	0	
K31HY-D D31 LD LIC		2.0	0		2.0	0	

Interference to BLANK0000071647 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KCBS-TV	D31	DT	LIC	LOS ANGELES, CA	BLANK0000071647	
Undesireds:	K40NW-D	D31	LD	APP	YUMA, AZ		368.4 km
	KXLA	D30	DT	CP	RANCHO PALOS VERDES, CA	BLANK0000145233	0.8
	KBTF-CD	D31	DC	LIC	BAKERSFIELD, CA	BLANK0000127171	147.3
	KRET-CD	D31	DC	LIC	PALM SPRINGS, CA	BLDTA20140702ADK	156.1
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	51052.5 17,854,678		39662.9	16,669,040	39451.2 16,572,469	39449.2 16,572,469	0.01 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
K40NW-D D31 LD APP		2.0	0		2.0	0	
KXLA D30 DT CP		159.1	90,201		159.1 90,201	159.1 90,201	

KBTF-CD D31 DC LIC	17.0	12	17.0	12	17.0	12
KRET-CD D31 DC LIC	35.6	6,358	35.6	6,358	35.6	6,358

Interference to BLANK0000071647 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	KCBS-TV	D31	DT	LIC	LOS ANGELES, CA	BLANK0000071647			
Undesireds:	K40NW-D	D31	LD	APP	YUMA, AZ		368.4 km		
	KXLA	D30	DT	LIC	RANCHO PALOS VERDES, CA	BLANK0000081656	0.8		
	KBTF-CD	D31	DC	LIC	BAKERSFIELD, CA	BLANK00000127171	147.3		
	KRET-CD	D31	DC	LIC	PALM SPRINGS, CA	BLDTA20140702ADK	156.1		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
51052.5 17,854,678		39662.9 16,669,040		39468.1 16,586,012		39466.1 16,586,012	0.01 0.00		
Undesired				Total IX	Unique IX, before	Unique IX, after			
K40NW-D D31 LD APP				2.0 0	2.0 0				
KXLA D30 DT LIC				142.2 76,658	142.2 76,658	142.2 76,658			
KBTF-CD D31 DC LIC				17.0 12	17.0 12	17.0 12			
KRET-CD D31 DC LIC				35.6 6,358	35.6 6,358	35.6 6,358			

Interference to BLDTA20140702ADK LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	KRET-CD	D31	DC	LIC	PALM SPRINGS, CA	BLDTA20140702ADK			
Undesireds:	K40NW-D	D31	LD	APP	YUMA, AZ		221.2 km		
	KCBS-TV	D31	DT	LIC	LOS ANGELES, CA	BLANK0000071647	156.1		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
7113.0 603,530		5093.2 452,954		5004.2 442,705		4998.3 442,705	0.12 0.00		
Undesired				Total IX	Unique IX, before	Unique IX, after			
K40NW-D D31 LD APP				8.9 0	6.0 0				
KCBS-TV D31 DT LIC				89.0 10,249	89.0 10,249	86.0 10,249			

Interference to BNPDTL20100510AAJ CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	K32OQ-D	D32	LD	CP	YUMA, AZ	BNPDTL20100510AAJ			
Undesireds:	K40NW-D	D31	LD	APP	YUMA, AZ		16.7 km		
	K32EM-D	D32	LD	CP	MORONGO VALLEY, CA	BLANK0000107157	235.3		
	K33MD-D	D33	LD	LIC	YUMA, AZ	BLDTL20150206AAR	25.9		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1293.5	153,006	1268.6	152,954	1229.5	152,930	1202.4	152,844	2.20	0.06
157.3	20,262	157.3	20,262	90.1	8,922	90.1	8,922	0.00	0.00
(in Mexico)									
Undesired			Total IX		Unique IX, before		Unique IX, after		
K40NW-D	D31	LD	APP	27.1	86	27.1	86		
K33MD-D	D33	LD	LIC	39.0	24	39.0	24		
K33MD-D	D33	LD	LIC	67.1	11,340	67.1	11,340	(in Mexico)	

Interference to proposal scenario 1
4.90% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	K40NW-D	D31	LD	APP	YUMA, AZ				
Undesireds:	K31AD-D	N31	TX	LIC	VICTORVILLE, ETC., CA	BLTT19900108IL	334.7 km		
	K32OQ-D	D32	LD	CP	YUMA, AZ	BNPDTL20100510AAJ	16.7		
Service area		Terrain-limited		IX-free		Percent IX			
1873.3	190,666	1868.3	190,666	1738.2	181,329	6.96	4.90		
1412.6	210,446	1412.6	210,446	1412.6	210,446	0.00	0.00 (in Mexico)		
Undesired			Total IX		Unique IX		Prcnt Unique IX		
K32OQ-D	D32	LD	CP	130.1	9,337	130.1	9,337	6.96	4.90