

TECHNICAL SUMMARY
DIGITAL DISPLACEMENT RELIEF
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
FCC FILE NO. 0000151090
LOW POWER DIGITAL STATION K27PC-D
YUMA, ARIZONA
CHANNEL 27 15 KW (DA)

1. Application Purpose: The instant application proposes to modify K27PC-D's outstanding construction permit (File No. 0000151090) by increasing the ERP from 3 kW to 15 kW. No other changes are proposed. Specifically, it is proposed to operate on channel 27 with a directional antenna maximum ERP of 15 kW using the authorized ERI model AL8-OC, horizontally polarized directional antenna with a main lobe orientation of 270 degrees true and 0.25 degrees of electrical beam tilt. The antenna radiation center height will remain at 544.6 m AMSL. There will be no change in the overall structure height (ASRN 1007974).

2. Figure 1 demonstrates that there is overlap of the authorized and proposed 51 dBu, f(50,90) protected contours as required by Section 73.3572(a)(2)(ii) for minor change applications.

3. Interference Compliance: As indicated in the attached *TVStudy* analyses summaries, K42LS-D's proposed channel 27 operation meets the FCC's interference protection requirements with respect to all protected domestic and international facilities except, as noted, with respect to the cancelled license of LPTV station DK28FM on analog channel 28 at Yuma, Arizona, FCC File No. BLTTL-20001006AAL. As the DK28FM license has been cancelled, protection is not required. A cell size of 1.0 km and a profile resolution of 1.0 km points/km were utilized for each *TVStudy* analysis.

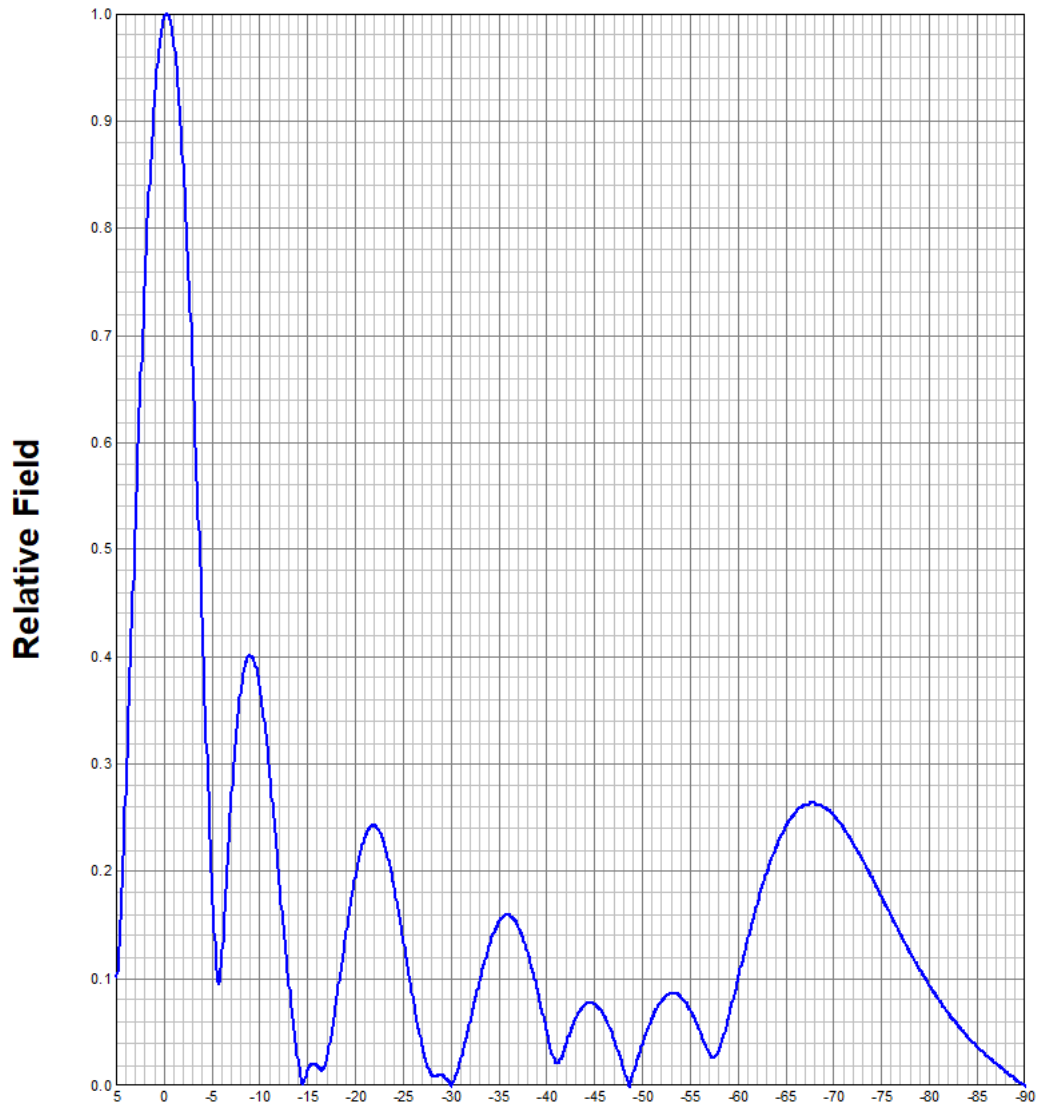
4. RFR Compliance: The proposed facilities were evaluated in terms of potential radiofrequency radiation (RFR) exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna will be located 53 meters above ground level. The total DTV ERP is 15 kW (horizontal polarization). A greater than expected vertical plane relative field value of 0.265 is presumed for the antenna's downward radiation (-60° to -90° elevation, see attached vertical plane relative field pattern). The calculated

power density at a point 2 meters above ground level is 13.5 uW/cm^2 which is 3.7% of the FCC's recommended limit of 367.3 uW/cm^2 for channel 27 for an uncontrolled environment. Thus, it is believed that the proposed K27PC-D facility is in full compliance with the FCC's requirements with regard to RF radiation exposure.

Access to the transmitting site will be restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a protocol shall be in effect in the event that workers or other authorized personnel enter the restricted area or climb the supporting structure to ensure that appropriate measures will be taken to assure worker safety with respect to RF energy exposure.

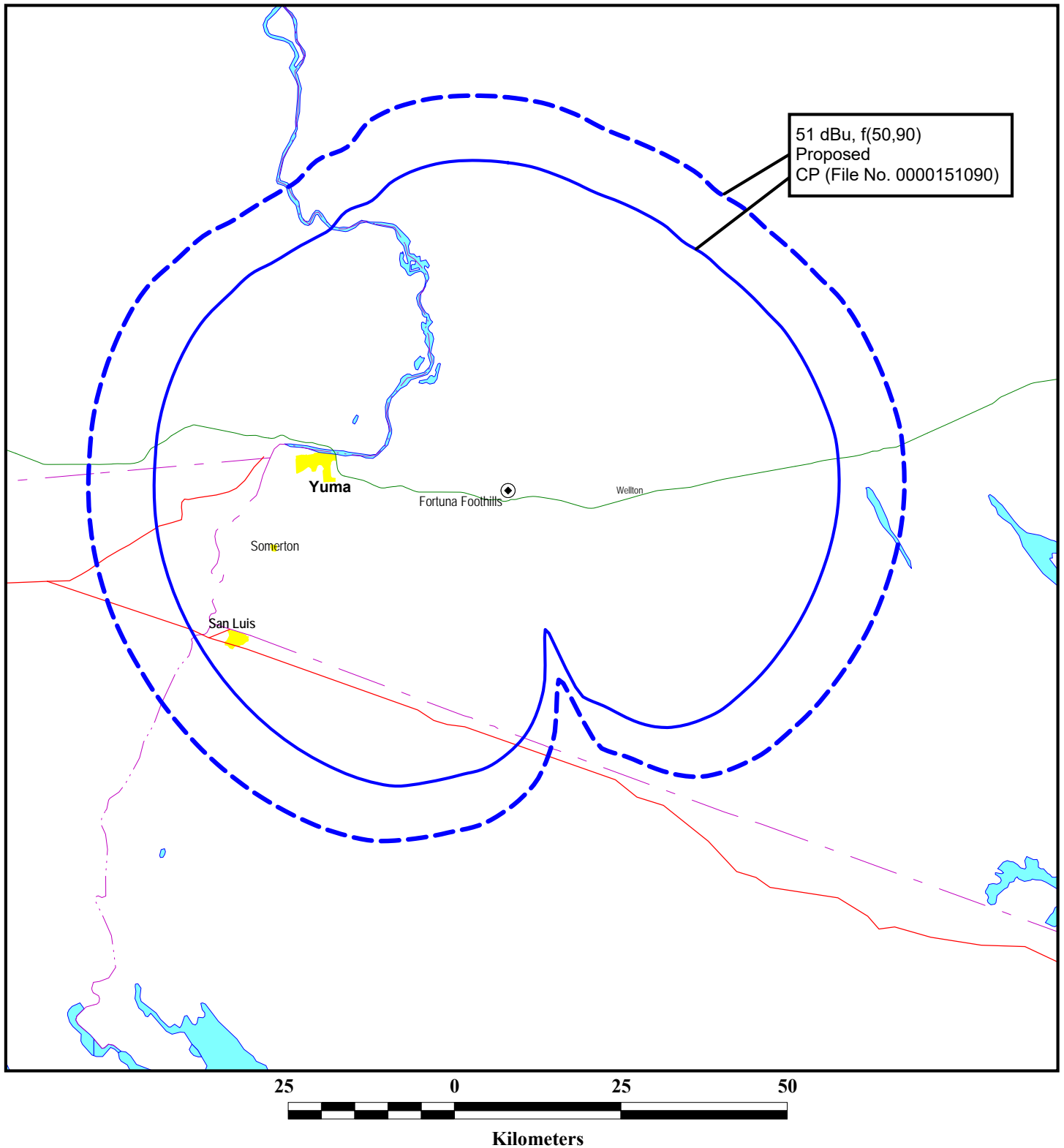
ELEVATION PATTERN

Type:	ALP8L1		Channel:	27
Directivity:	Numeric	dBd	Location:	
Main Lobe:	9.05	9.57	Beam Tilt:	-0.25
Horizontal:	9.00	9.54	Polarization:	Horizontal



Preliminary, subject to final design and review.

Figure 1



FCC PREDICTED 51 DBU CONTOURS

LPTV STATION K27PC-D
YUMA, ARIZONA
CH 27 15 KW (DA)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Proposed K27PC-D Domestic TVStudy Analysis

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: K27PC-D 15 kW - US Only #216, Model: Longley-Rice

Start: 2021.07.23 14:56:11

Study created: 2021.07.23 14:56:10

Study build station data: LMS TV 2021-07-22

Proposal: K27PC-D D27 LD CP YUMA, AZ

File number: K27PC-D 15 kW - US Only

Facility ID: 182419

Station data: User record

Record ID: 190

Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K19CX-D	N19	TX	LIC	YUMA, AZ	BLTT19941212JC	0.3 km
No	KUTP	D26	DT	LIC	PHOENIX, AZ	BLCDT20130625AAK	224.4
No	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	235.8
No	KSWB-TV	D26	DT	LIC	SAN DIEGO, CA	BLANK0000068712	243.2
Yes	K26PN-D	D26	LD	CP	WINTERHAVEN, CA	BNPDTL20100510AAW	48.0
No	K27DA-D	D27	LD	LIC	BIG SANDY VALLEY, AZ	BLDTT20130308AAI	274.2
No	KTVW-CD	D27	DC	LIC	FLAGSTAFF/DONEY PARK, AZ	BLDTA20140421ACI	365.0
No	K27KS-D	D27	LD	LIC	GLOBE/MIAMI, AZ	BLDTT20130312ACC	331.4
No	K27NT-D	D27	LD	LIC	GOLDEN VALLEY, AZ	BLANK0000071725	284.2
No	K27EC-D	D27	LD	LIC	LAKE HAVASU CITY, AZ	BLDTA20110503ACV	214.4
No	K16EO-D	D27	LD	LIC	ORO VALLEY/TUCSON, AZ	BLANK0000067692	316.5
Yes	KASW	D27	DT	LIC	PHOENIX, AZ	BLANK0000106570	224.3
Yes	KASW	D27	DD	CP	PHOENIX, AZ	BLANK0000116045	224.3
No	DDKDFQ-LP	D27z	LD	APP	PRESCOTT, AZ	BLANK0000052540	303.7
No	KYPO-LP	D27	LD	CP	TACNA, AZ	BLANK0000151856	134.8
No	KYPO-LP	N27	TX	LIC	TACNA, AZ	BLTTL20080818AAL	134.8
No	K27NR-D	D27	LD	LIC	TOPOCK, AZ	BLANK0000071723	262.7
No	KSCD-LP	D27-	LD	CP	HEMET, CA	BLANK0000054281	303.4
Yes	KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	235.7
No	KEDD-LD	D27	LD	CP	LOS ANGELES, CA	BLANK0000054820	417.1
No	K27ON-D	D27	LD	LIC	LUCERNE VALLEY, CA	BLANK0000082020	308.4
No	KPOM-CD	D27	DC	LIC	ONTARIO, CA	BLANK0000080302	354.6
No	KPOM-CD	D27	DC	CP	ONTARIO, CA	BLANK0000136453	385.7
No	KPCD-LP	D27-	LD	CP	San fernando, CA	BLANK0000054282	326.7
No	K27AE-D	D27	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000143996	347.8
No	K27AE-D	N27	TX	LIC	VICTORVILLE, ETC., CA	BLTT19820105IF	347.8
Yes	DK27DS	D27	LD	APP	YUCCA VALLEY, CA	BDFCDTT20120606AAZ	275.6
No	KPVT-LD	D27	LD	LIC	LAS VEGAS, NV	BLANK0000010689	376.0
No	KGRY-LD	D28	LD	CP	GILA RIVER INDIAN CO, AZ	BLANK0000136687	224.0
No	K28QP-D	D28	LD	CP	SALOME, AZ	BNPDTL20100514AEQ	130.0
No	K28QO-D	D28	LD	CP	SENTINEL, AZ	BNPDTL20100510AAS	107.4
Yes	DK28FM	N28z	TX	APP	YUMA, AZ	BLTTL20001006AAL	0.2 **
No	KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	235.9
No	KESE-LD	N35	TX	LIC	YUMA, AZ	BLTTL20001117AAJ	21.3

****The K28FM License was cancelled on 7/19/2021**

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D27

Mask: Full Service

Latitude: 32 40 21.00 N (NAD83)

Longitude: 114 20 10.00 W

Height AMSL: 544.6 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: ERI-AL8-OC (ID 89591) 270.0 deg

Elev Pattn: Generic

Elec Tilt: 0.25

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.22 kW	473.3 m	60.4 km
45.0	6.42	389.8	56.4
90.0	7.54	477.5	60.8
135.0	6.42	388.5	56.4
180.0	7.22	232.8	49.0
225.0	12.1	413.9	61.1
270.0	15.0	456.5	64.4

315.0 12.1 367.4 58.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 400 m

Distance to Canadian border: 1814.8 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 33.9 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 105.2 degrees Distance: 459.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 41.9 degrees Distance: 1158.6 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 BNPDTL20100510AAW CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K26PN-D	D26	LD	CP	WINTERHAVEN, CA	BNPDTL20100510AAW	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US Onl	48.0 km
	KMRZ-LD	D26	LD	CP	LOS ANGELES, CA	BLANK0000054819	308.9
	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	192.4
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	904.3	50,745	868.3	43,880	819.3 30,935	819.3 30,935	0.00 0.00
	356.6	26,340	356.6	26,340	342.6 26,318	342.6 26,318	0.00 0.00 (in
	Mexico)						
Undesired				Total IX	Unique IX, before	Unique IX, after	
K27PC-D D27 LD CP		1.0		0	0.0	0	
KMIR-TV D26 DT LIC		49.0		12,945	49.0 12,945	48.0 12,945	
KMIR-TV D26 DT LIC		14.0		22	14.0 22	14.0 22	(in Mexico)

Interference to BLANK0000106570 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KASW	D27	DT	LIC	PHOENIX, AZ	BLANK0000106570	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US Onl	224.3 km
	KUTP	D26	DT	LIC	PHOENIX, AZ	BLCDT20130625AAK	0.1
	KTVW-CD	D27	DC	LIC	FLAGSTAFF/DONEY PARK, AZ	BLDTA20140421ACI	188.7
	KUAS-TV	D28	DT	LIC	TUCSON, AZ	BLEDT20030115ABS	158.8
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	35433.1	4,174,222	28755.8	4,158,059	28573.7 4,155,776	28477.0 4,155,776	0.34 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K27PC-D D27 LD CP		98.7		13	96.7	0	
KUTP D26 DT LIC		146.1		2,262	146.1 2,262	145.1 2,262	
KTVW-CD D27 DC LIC		33.0		21	33.0 21	32.0 8	
KUAS-TV D28 DT LIC		3.0		0	3.0 0	3.0 0	

Interference to BLANK0000116045 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KASW	D27	DD	CP	PHOENIX, AZ	BLANK0000116045	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US Onl	224.3 km
	KUTP	D26	DT	LIC	PHOENIX, AZ	BLCDT20130625AAK	0.1
	KTVW-CD	D27	DC	LIC	FLAGSTAFF/DONEY PARK, AZ	BLDTA20140421ACI	188.7
	KUAS-TV	D28	DT	LIC	TUCSON, AZ	BLEDT20030115ABS	158.8
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	35433.1	4,174,222	28814.7	4,159,877	28632.4 4,159,723	28532.7 4,159,723	0.35 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
K27PC-D D27 LD CP	101.7		0		99.7 0
KUTP D26 DT LIC	141.2	141	141.2	141	139.3 141
KTVW-CD D27 DC LIC	38.0	13	38.0	13	38.0 13
KUAS-TV D28 DT LIC	3.0	0	3.0	0	3.0 0

Interference to BLANK0000074955 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US Onl	235.7 km
	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	0.1
	KPOM-CD	D27	DC	LIC	ONTARIO, CA	BLANK0000080302	122.1
	KEYT-TV	D27	DT	LIC	SANTA BARBARA, CA	BLCDT20061102ABJ	332.3
	KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	0.1
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	7452.7 623,334		5255.5 453,763		5170.3 439,720	5167.4 439,720	0.06 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
K27PC-D D27 LD CP	5.9		0		3.0 0
KMIR-TV D26 DT LIC	66.4	4,634	30.7	913	30.7 913
KPOM-CD D27 DC LIC	13.8	8,099	7.9	6,276	7.9 6,276
KEYT-TV D27 DT LIC	2.0	0	0.0	0	0.0 0
KESQ-TV D28 DT LIC	43.6	5,031	7.9	3,133	7.9 3,133

Interference to BLANK0000074955 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US Onl	235.7 km
	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	0.1
	KPOM-CD	D27	DC	CP	ONTARIO, CA	BLANK0000136453	154.9
	KEYT-TV	D27	DT	LIC	SANTA BARBARA, CA	BLCDT20061102ABJ	332.3
	KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	0.1
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	7452.7 623,334		5255.5 453,763		5163.4 440,520	5160.4 440,520	0.06 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
K27PC-D D27 LD CP	5.9		0		3.0 0
KMIR-TV D26 DT LIC	66.4	4,634	30.7	913	30.7 913
KPOM-CD D27 DC CP	20.7	7,299	14.8	5,476	14.8 5,476
KEYT-TV D27 DT LIC	2.0	0	0.0	0	0.0 0
KESQ-TV D28 DT LIC	43.6	5,031	8.9	3,133	8.9 3,133

Interference to BDFCDTT20120606AAZ APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	DK27DS	D27	LD	APP	YUCCA VALLEY, CA	BDFCDTT20120606AAZ	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US Onl	275.6 km
	K26KI-D	D26	LD	CP	BANNING, CA	BNPDTL20090825ACQ	21.8
	KMRZ-LD	D26	LD	CP	LOS ANGELES, CA	BLANK0000054819	83.1
	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	39.9
	KYPO-LP	D27	LD	CP	TACNA, AZ	BLANK0000151856	291.3
	KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	40.0
	KPOM-CD	D27	DC	LIC	ONTARIO, CA	BLANK0000080302	83.2
	KPCD-LP	D27-	LD	CP	San fernando, CA	BLANK0000054282	51.5
	K27AE-D	D27	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000143996	77.1
	KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	39.8
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	1764.0 92,675		1182.0 57,207		929.6 30,178	928.6 30,178	0.11 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
K27PC-D D27 LD CP	3.0		0		1.0 0
K26KI-D D26 LD CP	24.7	66	19.7	66	19.7 66
KMIR-TV D26 DT LIC	115.4	26,784	2.0	0	2.0 0
KVER-CD D27 DC LIC	224.9	26,963	110.4	179	110.4 179
KPOM-CD D27 DC LIC	6.9	0	1.0	0	1.0 0
KPCD-LP D27- LD CP	3.0	0	0.0	0	0.0 0
KESQ-TV D28 DT LIC	75.0	26,628	0.0	0	0.0 0

Interference to BDFCDTT20120606AAZ APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	DK27DS	D27	LD	APP	YUCCA VALLEY, CA	BDFCDTT20120606AAZ	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US Onl	275.6 km
	K26KI-D	D26	LD	CP	BANNING, CA	BNPDTL20090825ACQ	21.8
	KMRZ-LD	D26	LD	CP	LOS ANGELES, CA	BLANK0000054819	83.1
	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	39.9
	KYPO-LP	D27	LD	CP	TACNA, AZ	BLANK0000151856	291.3
	KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	40.0
	KPOM-CD	D27	DC	CP	ONTARIO, CA	BLANK0000136453	116.5
	KPCD-LP	D27-	LD	CP	San fernando, CA	BLANK0000054282	51.5
	K27AE-D	D27	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000143996	77.1
	KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	39.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1764.0	92,675	1182.0	57,207	928.6 30,178
				927.6 30,178
				0.11 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K27PC-D D27 LD CP	3.0	0	1.0 0
K26KI-D D26 LD CP	24.7	66	16.8 0
KMIR-TV D26 DT LIC	115.4	26,784	2.0 0
KVER-CD D27 DC LIC	224.9	26,963	110.4 179
KPOM-CD D27 DC CP	12.8	66	2.0 0
KPCD-LP D27- LD CP	3.0	0	0.0 0
KESQ-TV D28 DT LIC	75.0	26,628	0.0 0

Interference to BLTTTL20001006AAL APP scenario 1

****MX: 13.28% interference caused** Note: The K28FM license was cancelled on 7/19/2021

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	DK28FM	N28z	TX	APP	YUMA, AZ	BLTTTL20001006AAL	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US Onl	0.2 km
	K28QO-D	D28	LD	CP	SENTINEL, AZ	BNPDTL20100510AAS	107.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
108.2	32,143	90.1	30,278	88.1 30,278
				66.1 26,257
				25.00 13.28

Undesired	Total IX	Unique IX, before	Unique IX, after
K27PC-D D27 LD CP	24.0	4,021	22.0 4,021
K28QO-D D28 LD CP	2.0	0	2.0 0

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US Onl	
Undesireds:	K26PN-D	D26	LD	CP	WINTERHAVEN, CA	BNPDTL20100510AAW	48.0 km
	KASW	D27	DT	LIC	PHOENIX, AZ	BLANK0000106570	224.3
	KYPO-LP	D27	LD	CP	TACNA, AZ	BLANK0000151856	134.8
	KPOM-CD	D27	DC	LIC	ONTARIO, CA	BLANK0000080302	354.6
	K27AE-D	D27	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000143996	347.8

Service area	Terrain-limited	IX-free	Percent IX
8905.6	198,193	7733.2	198,145
1809.2	203,811	1787.1	203,811
			0.72 0.00
			0.06 0.00 (in Mexico)

Undesired	Total IX	Unique IX	Prcnt Unique IX
K26PN-D D26 LD CP	56.0	0	56.0 0
K26PN-D D26 LD CP	1.0	0	1.0 0
			0.72 0.00
			0.06 0.00 (in Mexico)

Proposed K27PC-D US & Mexican Stations Considered

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K27PC-D 15 kW - US&Mex, Model: Longley-Rice
Start: 2021.07.19 10:58:21

Study created: 2021.07.19 10:58:21

Study build station data: LMS TV 2021-07-18

Proposal: K27PC-D D27 LD CP YUMA, AZ
File number: K27PC-D 15 kW - US&Mex
Facility ID: 182419
Station data: User record
Record ID: 186
Country: U.S.

Search options:
Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K19CX-D	N19	TX	LIC	YUMA, AZ	BLTT19941212JC	0.3 km
No	K24FA	N24+	TX	LIC	BLYTHE, CA	BLTT20020311ABC	99.8
No	KUTP	D26	DT	LIC	PHOENIX, AZ	BLCDT20130625AAK	224.4
No	K26FS	N26+	TX	LIC	BLYTHE, CA	BLTT20020311ABG	99.8
No	KMR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	235.8
No	KSWB-TV	D26	DT	LIC	SAN DIEGO, CA	BLANK0000068712	243.2
Yes	K26PN-D	D26	LD	CP	WINTERHAVEN, CA	BNPDTL20100510AAW	48.0
No	K27DA-D	D27	LD	LIC	BIG SANDY VALLEY, AZ	BLDTT20130308AAI	274.2
No	K27W-CD	D27	DC	LIC	FLAGSTAFF/DONEY PARK, AZ	BLDTA20140421ACI	365.0
No	K27KS-D	D27	LD	LIC	GLOBE/MIAMI, AZ	BLDTT20130312ACC	331.4
No	K27NT-D	D27	LD	LIC	GOLDEN VALLEY, AZ	BLANK0000071725	284.2
No	K27EC-D	D27	LD	LIC	LAKE HAVASU CITY, AZ	BLDTA20110503ACV	214.4
No	K16EO-D	D27	LD	LIC	ORO VALLEY/TUCSON, AZ	BLANK0000067692	316.5
Yes	KASW	D27	DT	LIC	PHOENIX, AZ	BLANK0000106570	224.3
Yes	KASW	D27	DD	CP	PHOENIX, AZ	BLANK0000116045	224.3
No	DDKDFQ-LP	D27z	LD	APP	PRESCOTT, AZ	BLANK0000052540	303.7
No	KYPO-LP	D27	LD	CP	TACNA, AZ	BLANK0000151856	134.8
No	KYPO-LP	N27	TX	LIC	TACNA, AZ	BLTTL20080818AAL	134.8
No	K27NR-D	D27	LD	LIC	TOPOCK, AZ	BLANK0000071723	262.7
No	KSCD-LP	D27-	LD	CP	HEMET, CA	BLANK0000054281	303.4
Yes	KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	235.7
No	KEDD-LD	D27	LD	CP	LOS ANGELES, CA	BLANK0000054820	417.1
No	K27ON-D	D27	LD	LIC	LUCERNE VALLEY, CA	BLANK0000082020	308.4
No	KPOM-CD	D27	DC	LIC	ONTARIO, CA	BLANK0000080302	354.6
No	KPOM-CD	D27	DC	CP	ONTARIO, CA	BLANK0000136453	385.7
No	KPCD-LP	D27-	LD	CP	San fernando, CA	BLANK0000054282	326.7
No	K27AE-D	D27	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000143996	347.8
No	K27AE-D	N27	TX	LIC	VICTORVILLE, ETC., CA	BLTT19820105IF	347.8
Yes	DK27DS	D27	LD	APP	YUCCA VALLEY, CA	BDFCDTT20120606AAZ	275.6
No	KPVT-LD	D27	LD	LIC	LAS VEGAS, NV	BLANK0000010689	376.0
No	KGRY-LD	D28	LD	CP	GILA RIVER INDIAN CO, AZ	BLANK0000136687	224.0
No	K28QP-D	D28	LD	CP	SALOME, AZ	BNPDTL20100514AEQ	130.0
No	K28QO-D	D28	LD	CP	SENTINEL, AZ	BNPDTL20100510AAS	107.4
Yes	K28FM	N28z	TX	LIC	YUMA, AZ	BLTTL20001006AAL	0.2
No	KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	235.9
No	K29EC	N29z	TX	LIC	BLYTHE, CA	BLTT20020311ABI	99.8
No	K31FE	N31-	TX	LIC	BLYTHE, CA	BLTT20011203AMO	99.8
No	KESE-LD	N35	TX	LIC	YUMA, AZ	BLTTL20001117AAJ	21.3
No	XHEBC	D26	DT	LIC	ENSENADA, BN	BLANKBPFS20160301ABP	233.2
No	XHSFB	D26	DT	LIC	SAN FELIPE, BN	BLANKBPFS20151106AAJ	189.4
No	XHBJ	D27	DT	LIC	TIJUANA, BN	BLANKBPFS20160302ADP	253.9
No	XHAQ	D28	DT	LIC	MEXICALI, BN	BLANKBPFS20050721AFZ	108.0
No	XHJK	D28	DT	LIC	TIJUANA, BN	BLANKBPFS20091104ADT	253.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D27
Mask: Full Service
Latitude: 32 40 21.00 N (NAD83)
Longitude: 114 20 10.00 W
Height AMSL: 544.6 m
HAAT: 0.0 m

Peak ERP: 15.0 kW
Antenna: ERI-AL8-OC (ID 89591) 270.0 deg
Elev Pattn: Generic
Elec Tilt: 0.25

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.22 kW	473.3 m	60.4 km
45.0	6.42	389.8	56.4
90.0	7.54	477.5	60.8
135.0	6.42	388.5	56.4
180.0	7.22	232.8	49.0
225.0	12.1	413.9	61.1
270.0	15.0	456.5	64.4
315.0	12.1	367.4	58.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 400 m

Distance to Canadian border: 1814.8 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 33.9 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 105.2 degrees Distance: 459.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 41.9 degrees Distance: 1158.6 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 BNPDTL20100510AAW CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K26PN-D	D26	LD	CP	WINTERHAVEN, CA	BNPDTL20100510AAW	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US&Mex	48.0 km
	K26FS	N26+	TX	LIC	BLYTHER, CA	BLTT20020311ABG	100.5
	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	192.4
	XHEXT	D25	DT	LIC	MEXICALI, BN	BLANKBFFS20050721BFG	63.1
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
904.3	50,745	868.3	43,880	817.3	30,935	817.3 30,935	0.00 0.00
356.6	26,340	356.6	26,340	342.6	26,318	342.6 26,318	0.00 0.00 (in
Mexico)							

Undesired	Total IX	Unique IX, before	Unique IX, after
K27PC-D D27 LD CP	1.0 0	0.0 0	0.0 0
K26FS N26+ TX LIC	1.0 0	1.0 0	1.0 0
KMIR-TV D26 DT LIC	49.0 12,945	49.0 12,945	48.0 12,945
KMIR-TV D26 DT LIC	14.0 22	14.0 22	14.0 22 (in Mexico)
XHEXT D25 DT LIC	1.0 0	1.0 0	1.0 0

Interference to BLANK0000106570 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KASW	D27	DT	LIC	PHOENIX, AZ	BLANK0000106570	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US&Mex	224.3 km
	KUTP	D26	DT	LIC	PHOENIX, AZ	BLCDT20130625AAK	0.1
	KTVW-CD	D27	DC	LIC	FLAGSTAFF/DONEY PARK, AZ	BLDTA20140421ACI	188.7
	KUAS-TV	D28	DT	LIC	TUCSON, AZ	BLEDT20030115ABS	158.8
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
35433.1	4,174,222	28755.8	4,158,059	28573.7	4,155,776	28477.0 4,155,776	0.34 0.00
Undesired	Total IX		Unique IX, before		Unique IX, after		
K27PC-D D27 LD CP	98.7 13		96.7 0				

KUTP D26 DT LIC	146.1	2,262	146.1	2,262	145.1	2,262
KTVW-CD D27 DC LIC	33.0	21	33.0	21	32.0	8
KUAS-TV D28 DT LIC	3.0	0	3.0	0	3.0	0

Interference to BLANK0000116045 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KASW	D27	DD	CP	PHOENIX, AZ	BLANK0000116045	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US&Mex	224.3 km
	KUTP	D26	DT	LIC	PHOENIX, AZ	BLCDT20130625AAK	0.1
	KTVW-CD	D27	DC	LIC	FLAGSTAFF/DONEY PARK, AZ	BLDTA20140421ACI	188.7
	KUAS-TV	D28	DT	LIC	TUCSON, AZ	BLEDT20030115ABS	158.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
35433.1	4,174,222	28814.7	4,159,877	28632.4	4,159,723	28532.7 4,159,723	0.35 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K27PC-D D27 LD CP		101.7	0			99.7 0	
KUTP D26 DT LIC		141.2	141	141.2	141	139.3 141	
KTVW-CD D27 DC LIC		38.0	13	38.0	13	38.0 13	
KUAS-TV D28 DT LIC		3.0	0	3.0	0	3.0 0	

Interference to BLANK0000074955 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US&Mex	235.7 km
	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	0.1
	KPOM-CD	D27	DC	LIC	ONTARIO, CA	BLANK0000080302	122.1
	KEYT-TV	D27	DT	LIC	SANTA BARBARA, CA	BLCDT20061102ABJ	332.3
	KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	0.1
	XHBJ	D27	DT	LIC	TIJUANA, BN	BLANKBFFS20160302ADP	161.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7452.7	623,334	5255.5	453,763	5170.3	439,720	5167.4 439,720	0.06 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K27PC-D D27 LD CP		5.9	0			3.0 0	
KMIR-TV D26 DT LIC		66.4	4,634	30.7	913	30.7 913	
KPOM-CD D27 DC LIC		13.8	8,099	6.9	6,276	6.9 6,276	
KEYT-TV D27 DT LIC		2.0	0	0.0	0	0.0 0	
KESQ-TV D28 DT LIC		43.6	5,031	7.9	3,133	7.9 3,133	
XHBJ D27 DT LIC		1.0	0	0.0	0	0.0 0	

Interference to BLANK0000074955 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US&Mex	235.7 km
	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	0.1
	KPOM-CD	D27	DC	CP	ONTARIO, CA	BLANK0000136453	154.9
	KEYT-TV	D27	DT	LIC	SANTA BARBARA, CA	BLCDT20061102ABJ	332.3
	KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	0.1
	XHBJ	D27	DT	LIC	TIJUANA, BN	BLANKBFFS20160302ADP	161.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7452.7	623,334	5255.5	453,763	5163.4	440,520	5160.4 440,520	0.06 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K27PC-D D27 LD CP		5.9	0			3.0 0	
KMIR-TV D26 DT LIC		66.4	4,634	30.7	913	30.7 913	
KPOM-CD D27 DC CP		20.7	7,299	13.8	5,476	13.8 5,476	
KEYT-TV D27 DT LIC		2.0	0	0.0	0	0.0 0	
KESQ-TV D28 DT LIC		43.6	5,031	8.9	3,133	8.9 3,133	
XHBJ D27 DT LIC		1.0	0	0.0	0	0.0 0	

Interference to BDFCDTT20120606AAZ APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	DK27DS	D27	LD	APP	YUCCA VALLEY, CA	BDFCDTT20120606AAZ	
Undesireds:	K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US&Mex	275.6 km

K26KI-D	D26	LD	CP	BANNING, CA	BNPDTL20090825ACQ	21.8
KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	39.9
KYPO-LP	D27	LD	CP	TACNA, AZ	BLANK0000151856	291.3
KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	40.0
KPOM-CD	D27	DC	LIC	ONTARIO, CA	BLANK0000080302	83.2
KPCD-LP	D27-	LD	CP	San fernando, CA	BLANK0000054282	51.5
K27AE-D	D27	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000143996	77.1
KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	39.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1764.0 92,675	1182.0 57,207	929.6 30,178	928.6 30,178	0.11 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
K27PC-D D27 LD CP	3.0 0		1.0 0	
K26KI-D D26 LD CP	24.7 66	19.7 66	19.7 66	
KMIR-TV D26 DT LIC	115.4 26,784	2.0 0	2.0 0	
KVER-CD D27 DC LIC	224.9 26,963	110.4 179	110.4 179	
KPOM-CD D27 DC LIC	6.9 0	1.0 0	1.0 0	
KPCD-LP D27- LD CP	3.0 0	0.0 0	0.0 0	
KESQ-TV D28 DT LIC	75.0 26,628	0.0 0	0.0 0	

Interference to BDFCDTT20120606AAZ APP scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: DK27DS	D27	LD	APP	YUCCA VALLEY, CA	BDFCDTT20120606AAZ	
Undesireds: K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US&Mex	275.6 km
K26KI-D	D26	LD	CP	BANNING, CA	BNPDTL20090825ACQ	21.8
KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	39.9
KYPO-LP	D27	LD	CP	TACNA, AZ	BLANK0000151856	291.3
KVER-CD	D27	DC	LIC	INDIO, CA	BLANK0000074955	40.0
KPOM-CD	D27	DC	CP	ONTARIO, CA	BLANK0000136453	116.5
KPCD-LP	D27-	LD	CP	San fernando, CA	BLANK0000054282	51.5
K27AE-D	D27	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000143996	77.1
KESQ-TV	D28	DT	LIC	PALM SPRINGS, CA	BLANK0000078362	39.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1764.0 92,675	1182.0 57,207	928.6 30,178	927.6 30,178	0.11 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
K27PC-D D27 LD CP	3.0 0		1.0 0	
K26KI-D D26 LD CP	24.7 66	16.8 0	16.8 0	
KMIR-TV D26 DT LIC	115.4 26,784	2.0 0	2.0 0	
KVER-CD D27 DC LIC	224.9 26,963	110.4 179	110.4 179	
KPOM-CD D27 DC CP	12.8 66	2.0 0	2.0 0	
KPCD-LP D27- LD CP	3.0 0	0.0 0	0.0 0	
KESQ-TV D28 DT LIC	75.0 26,628	0.0 0	0.0 0	

Interference to BLTTL20001006AAL LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K28FM	N28z	TX	LIC	YUMA, AZ	BLTTL20001006AAL	
Undesireds: K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US&Mex	0.2 km
K28QO-D	D28	LD	CP	SENTINEL, AZ	BNPDTL20100510AAS	107.5
XHAQ	D28	DT	LIC	MEXICALI, BN	BLANKBFFS20050721AFZ	107.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
108.2 32,143	90.1 30,278	44.1 15,817	41.1 15,817	6.82 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
K27PC-D D27 LD CP	24.0 4,021		3.0 0	
K28QO-D D28 LD CP	2.0 0	0.0 0	0.0 0	
XHAQ D28 DT LIC	46.1 14,461	44.1 14,461	25.0 10,440	

Interference to proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K27PC-D	D27	LD	CP	YUMA, AZ	K27PC-D 15 kW - US&Mex	
Undesireds: K26PN-D	D26	LD	CP	WINTERHAVEN, CA	BNPDTL20100510AAW	48.0 km
KASW	D27	DT	LIC	PHOENIX, AZ	BLANK0000106570	224.3
KYPO-LP	D27	LD	CP	TACNA, AZ	BLANK0000151856	134.8
KPOM-CD	D27	DC	LIC	ONTARIO, CA	BLANK0000080302	354.6
K27AE-D	D27	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000143996	347.8

Service area		Terrain-limited		IX-free		Percent IX	
8905.6	198,193	7733.2	198,145	7677.2	198,145	0.72	0.00
1809.2	203,811	1787.1	203,811	1786.1	203,811	0.06	0.00 (in Mexico)
Undesired			Total IX		Unique IX	Prcnt Unique IX	
K26PN-D D26 LD CP		56.0	0	56.0	0	0.72	0.00
K26PN-D D26 LD CP		1.0	0	1.0	0	0.06	0.00 (in Mexico)