

# INTERFERENCE ANALYSIS FOR PROPOSED K12QW-D, CHANNEL 27, SILVER CITY, NEW MEXICO (DISPLACEMENT)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: k12qw27c1, Model: Longley-Rice

Study build station data: LMS TV 2023-03-19

Proposal: K12QW27C1 D27 LD APP SILVER CITY, NM  
File number: k12qw27c1  
Facility ID: 181278  
Station data: User record  
Record ID: 5054  
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	DK19HV	N19z	TX	APP	DEMING, NM	BLTT20100629AOR	95.2 km
No	K20HA-D	N20z	TX	LIC	CABALLO, NM	BLTT20050202ADM	95.7
No	KCWF-LD	N20+	TX	LIC	LAS CRUCES, NM	BLTTL20110415AAC	147.7
No	K25DI	N25	TX	LIC	SILVER CITY, NM	BLTT19910325JS	2.1
No	K26PM-D	D26	LD	CP	BOWIE, AZ	BNPDTL20100504AMP	130.2
No	KTDO	D26	DT	LIC	LAS CRUCES, NM	BLANK0000072065	202.7
No	KTVW-CD	D27	DC	LIC	FLAGSTAFF/DONEY PARK, AZ	BLDTA20140421ACI	381.6
No	K27KS-D	D27	LD	LIC	GLOBE/MIAMI, AZ	BLDTT20130312ACC	250.5
No	K27OR-D	D27	LD	LIC	KLAGETO, AZ	BLANK0000184734	324.8
No	K27OP-D	D27	LD	LIC	ORO VALLEY/TUCSON, AZ	BLANK0000067692	268.9
No	KASW	D27	DD	LIC	PHOENIX, AZ	BLANK0000204930	359.6
No	K27HP-D	D27	LD	LIC	ALAMOGORDO, NM	BLDTT20091211AEQ	219.8
No	KRPV-DT	D27	DT	LIC	ROSWELL, NM	BLCDT20090211ABQ	364.6
No	KASA-TV	D27	DT	LIC	SANTA FE, NM	BLANK0000136792	308.9
Yes	K27OJ-D	D27	LD	LIC	EL PASO, TX	BLANK0000069872	202.7
No	K28OY-D	D28z	LD	LIC	SIERRA VISTA, AZ	BLANK0000081217	223.0
No	KUAS-TV	D28	DT	LIC	TUCSON, AZ	BLEDT20030115ABS	268.9
No	K28QE-D	D28+	LD	LIC	CABALLO, NM	BLANK0000064063	95.3
No	K28GJ-D	D28	LD	LIC	HATCH, NM	BLDTT20100115ACL	111.6
Yes	K28LK-D	D28	LD	CP	SILVER CITY, NM	BLANK0000126118	0.0
Yes	K28LK-D	D28	LD	LIC	SILVER CITY, NM	BLANK0000106677	0.0
No	K31DR-D	N31	TX	LIC	CABALLO, NM	BLTT20041021AEZ	95.7
No	DDK34FU	N34-	TX	APP	ARREY & DERRY, NM	BLTT20040325ACF	95.7
No	CADENATRES	D26	DT	LIC	AGUA PRIETA, SO	BLANKBPFS20160525ACB	210.1
No	LICITACION	D28	DT	LIC	CIUDAD JUAREZ, CH	BLANKBPFS20160525AAO	208.0
No	LICITACION	D28	DT	LIC	NUEVO CASAS GRANDES, CH	BLANKBPFSXXXX0009XXX	275.7

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: Stringent  
Latitude: 32 51 49.20 N (NAD83)  
Longitude: 108 14 29.10 W  
Height AMSL: 2504.0 m  
HAAT: 476.0 m  
Peak ERP: 15.0 kW  
Antenna: KAT-2x2 750 10210 0.0 deg  
Elev Pattnr: Generic  
Elec Tilt: 3.70

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.242 kW	304.2 m	34.3 km
45.0	0.309	177.1	29.6
90.0	2.73	346.5	49.9
135.0	15.0	612.1	69.2
180.0	13.8	660.1	69.9
225.0	14.7	561.3	67.5
270.0	2.68	549.9	56.6
315.0	0.358	599.4	45.1

# INTERFERENCE ANALYSIS FOR PROPOSED K12QW-D, CHANNEL 27, SILVER CITY, NEW MEXICO (DISPLACEMENT)

Distance to Canadian border: 1793.5 km

\*\*Proposal is within coordination distance of Mexican border  
Distance to Mexican border: 120.1 km

Conditions at FCC monitoring station: Douglas AZ  
Bearing: 221.6 degrees Distance: 201.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 17.4 degrees Distance: 849.2 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 BLANK0000069872 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K27OJ-D	D27	LD	LIC	EL PASO, TX	BLANK0000069872	
Undesireds:	K12QW27C1	D27	LD	APP	SILVER CITY, NM	k12qw27c1	202.7 km
	KTDO	D26	DT	LIC	LAS CRUCES, NM	BLANK0000072065	0.0
	K27HP-D	D27	LD	LIC	ALAMOGORDO, NM	BLDTT20091211AEQ	126.9
	K27GL-D	D27	LD	CP	HOBBS, NM	BLANK0000060815	334.3
	LICITACIOND28	DT	LIC		CIUDAD JUAREZ, CH	BLANKBPF20160525AAO	11.6
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	6778.5	866,148	6393.7	864,303	6130.5	849,925	0.02 0.00
	4985.9	1,340,474	4654.9	1,329,257	4637.7	1,327,713	0.63 0.00(in Mexico)

Undesired	Total IX	Unique IX, before	Unique IX, after
K12QW27C1 D27 LD APP	2.0	0	1.0 0
K12QW27C1 D27 LD APP	30.5	0	29.4 0 (in Mexico)
KTDO D26 DT LIC	244.0	14,375	236.9 14,037
KTDO D26 DT LIC	6.1	0	6.1 0 (in Mexico)
K27HP-D D27 LD LIC	10.1	338	2.0 0
LICITACION D28 DT LIC	17.2	3	15.2 3
LICITACION D28 DT LIC	11.2	1,544	11.2 1,544 (in Mexico)

## ----- Interference to BLANK0000126118 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K28LK-D	D28	LD	CP	SILVER CITY, NM	BLANK0000126118	
Undesireds:	K12QW27C1	D27	LD	APP	SILVER CITY, NM	k12qw27c1	0.0 km
	K28OY-D	D28z	LD	LIC	SIERRA VISTA, AZ	BLANK0000081217	223.0
	K28QE-D	D28+	LD	LIC	CABALLO, NM	BLANK0000064063	95.3
	K28GJ-D	D28	LD	LIC	HATCH, NM	BLDTT20100115ACL	111.6
	LICITACIOND28	DT	LIC		CIUDAD JUAREZ, CH	BLANKBPF20160525AAO	208.0
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	10323.0	29,585	7328.4	28,052	7302.4	28,052	0.44 0.25

Undesired	Total IX	Unique IX, before	Unique IX, after
K12QW27C1 D27 LD APP	32.1	70	32.1 70
K28OY-D D28z LD LIC	11.0	0	10.0 0
K28QE-D D28+ LD LIC	10.0	0	4.0 0
K28GJ-D D28 LD LIC	6.0	0	0.0 0
LICITACION D28 DT LIC	10.0	0	5.0 0

## ----- Interference to BLANK0000106677 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K28LK-D	D28	LD	LIC	SILVER CITY, NM	BLANK0000106677	

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Undesireds:	K12QW27C1	D27	LD	APP	SILVER CITY, NM	k12qw27c1	0.0 km
	K28OY-D	D28z	LD	LIC	SIERRA VISTA, AZ	BLANK0000081217	223.0
	K28QE-D	D28+	LD	LIC	CABALLO, NM	BLANK0000064063	95.3
	K28GJ-D	D28	LD	LIC	HATCH, NM	BLDTT20100115ACL	111.6
	LICITACIOND28	DT	LIC		CIUDAD JUAREZ, CH	BLANKBPFS20160525AAO	208.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent	New IX
11890.9	29,767	8571.3	28,244	8530.3	28,244
				8497.2	28,188
				0.39	0.20

Undesired	Total IX	Unique IX, before	Unique IX, after
K12QW27C1 D27 LD APP	33.1	56	33.1
K28OY-D D28z LD LIC	14.0	0	14.0
K28QE-D D28+ LD LIC	16.0	0	2.0
K28GJ-D D28 LD LIC	19.0	0	5.0
LICITACION D28 DT LIC	18.0	0	2.0

## Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K12QW27C1	D27	LD	APP	SILVER CITY, NM	k12qw27c1	
Undesireds:	K27OJ-D	D27	LD	LIC	EL PASO, TX	BLANK0000069872	202.7 km
	K28GJ-D	D28	LD	LIC	HATCH, NM	BLDTT20100115ACL	111.6
	K28LK-D	D28	LD	CP	SILVER CITY, NM	BLANK0000126118	0.0

Service area	Terrain-limited	IX-free	Percent IX
9023.3	29,529	6435.4	28,054
		6318.5	28,034
		1.82	0.07

Undesired	Total IX	Unique IX	Prcnt Unique IX
K27OJ-D D27 LD LIC	20.0	0	0.26
K28GJ-D D28 LD LIC	3.0	0	0.00
K28LK-D D28 LD CP	96.8	20	1.50

## Interference to proposal scenario 2

3.48% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K12QW27C1	D27	LD	APP	SILVER CITY, NM	k12qw27c1	
Undesireds:	K27OJ-D	D27	LD	LIC	EL PASO, TX	BLANK0000069872	202.7 km
	K28GJ-D	D28	LD	LIC	HATCH, NM	BLDTT20100115ACL	111.6
	K28LK-D	D28	LD	LIC	SILVER CITY, NM	BLANK0000106677	0.0

Service area	Terrain-limited	IX-free	Percent IX
9023.3	29,529	6435.4	28,054
		5476.9	27,079
		14.89	3.48

Undesired	Total IX	Unique IX	Prcnt Unique IX
K27OJ-D D27 LD LIC	20.0	0	0.23
K28GJ-D D28 LD LIC	3.0	0	0.00
K28LK-D D28 LD LIC	940.5	975	14.58