INTERFERENCE ANALYSIS FOR PROPOSED K43GQ-D, KLAGETOH, AZ, CHANNEL 27

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: k43gq27p2, Model: Longley-Rice

Study build station data: LMS TV 2018-10-31

    Proposal: K43GQ27P2 D27 LD APP KLAGETOH, AZ
 File number: k43gq27p2
 Facility ID: 19110
Station data: User record
   Record ID: 3344
     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	KOB	D26	DT	LIC	ALBUQUERQUE, NM	BLCDT20051003BQP	254.9 km
No	K26MN-D	D26	LD	CP	AZTEC, NM	BNPDTL20100510AGX	172.4
No	K39FY	D26+	LD	CP	ZUNI, NM	BLANK0000054517	75.6
No	K27EJ-D	D27	LD	LIC	COLORADO CITY, AZ	BLDTT20130308AAX	368.5
No	KTVW-CD	D27	DC	LIC	FLAGSTAFF/DONEY PARK, AZ	BLDTA20140421ACI	223.1
No	K27KS-D	D27	LD	LIC	GLOBE/MIAMI, AZ	BLDTT20130312ACC	300.7
No	KASW	D27	DT	CP	PHOENIX, AZ	BLANK0000048389	369.0
No	KDFQ-LP	D27z	LD	APP	PRESCOTT, AZ	BLANK0000052540	286.3
No	K27IG-D	D27	LD	LIC	CORTEZ, ETC, CO	BLDTT20090522ACA	210.4
No	K27LK-D	D27	LD	LIC	GATEVIEW, CO	BLDTT20120106ABO	335.9
No	K27MT-D	D27	LD	LIC	ROMEO, CO	BLANK0000055052	314.6
No	K44GC-D	D27	LD	CP	AZTEC, NM	BLANK0000051805	173.0
Yes	KASA-TV	D27	DT	LIC	SANTA FE, NM	BLCDT20090417AAS	254.8
No	K27BN	N27	TX	LIC	TRUTH OR CONSEQUENCE, NM	BLTT19871106IB	331.6
No	K27KB-D	D27	LD	LIC	CAINEVILLE, UT	BLDTT20100223AEM	334.0
No	K27IT-D	D27	LD	LIC	ESCALANTE, UT	BLDTT20110503ABI	316.7
No	K27KQ-D	D27	LD	LIC	HANKSVILLE, UT	BLDTT20120813ABU	327.9
No	K27KD-D	D27	LD	LIC	HATCH, UT	BLDTT20100524AAS	359.4
No	K27JV-D	D27	LD	LIC	KANAB, UT	BLDTT20100429ADW	334.1
No	K27IX-D	D27	LD	LIC	LOA, ETC., UT	BLDTT20090203AAF	375.6
No	K27KH-D	D27	LD	LIC	ORDERVILLE, UT	BLDTT20091211AGF	352.2
No	K27ID-D	D27	LD	LIC	TROPIC & CANNONVILLE, UT	BLDTT20090708AJJ	341.6
No	K28GT-D	D28	LD	LIC	CROWNPOINT, NM	BLDTT20120127AGO	95.6
No	K30GL	N30+	TX	LIC	MANY FARMS, AZ	BLTT20031205ABO	87.7

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: Simple
   Latitude: 35 40 29.00 N (NAD83)
  Longitude: 109 12 25.00 W
Height AMSL: 2400.4 m
       HAAT: 0.0 m
   Peak ERP: 0.205 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 1.50

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.205 kW	0.5 m	11.9 km
45.0	0.205	125.0	24.1
90.0	0.205	266.6	32.0
135.0	0.205	261.3	31.7
180.0	0.205	100.4	21.9
225.0	0.205	127.7	24.3
270.0	0.205	160.5	26.6
315.0	0.205	123.5	24.0

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 146 m

Distance to Canadian border: 1481.1 km

Distance to Mexican border: 442.2 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 185.2 degrees   Distance: 465.8 km

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Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 33.9 degrees Distance: 603.3 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 BLCDT20090417AAS LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KASA-TV	D27	DT	LIC	SANTA FE, NM	BLCDT20090417AAS	
Undesireds:	K43GQ27P2	D27	LD	APP	KLAGETOH, AZ	k43gq27p2	254.8 km
	KOB	D26	DT	LIC	ALBUQUERQUE, NM	BLCDT20051003BQP	0.2
	KRPV-DT	D27	DT	LIC	ROSWELL, NM	BLCDT20090211ABQ	277.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
60413.3	1,161,765	51744.2	1,116,997	51575.0	1,115,034	51562.0	1,115,028	0.03	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K43GQ27P2 D27 LD APP	13.0	6			13.0	6
KOB D26 DT LIC	163.2	1,963	163.2	1,963	163.2	1,963
KRPV-DT D27 DT LIC	6.0	0	6.0	0	6.0	0

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K43GQ27P2	D27	LD	APP	KLAGETOH, AZ	k43gq27p2	
Undesireds:	KTVW-CD	D27	DC	LIC	FLAGSTAFF/DONEY PARK, AZ	BLDTA20140421ACI	223.1 km
	KASA-TV	D27	DT	LIC	SANTA FE, NM	BLCDT20090417AAS	254.8

Service area		Terrain-limited		IX-free		Percent IX	
1947.0	14,652	1599.2	10,078	1590.2	10,051	0.56	0.27

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KTVW-CD D27 DC LIC	3.0	0	3.0	0	0.19	0.00
KASA-TV D27 DT LIC	5.9	27	5.9	27	0.37	0.27
