

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: 00687\_12052020\_KSAZ\_35587, Model: Longley-Rice  
Start: 2020.12.05 13:18:37

Study created: 2020.12.05 13:18:37

Study build station data: LMS TV 2020-12-04

Proposal: KSAZ-TV D10 DX APP PHOENIX, AZ  
File number: 00687\_12052020\_KSAZ\_35587  
Facility ID: 35587  
Station data: User record  
Record ID: 1164  
Country: U.S.  
Zone: II

Search options:  
Non-U.S. records included  
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KGUN-TV	D9	DT	LIC	TUCSON, AZ	BLANK0000001462	162.0 km
No	KECY-TV	D9	DT	LIC	EL CENTRO, CA	BLCDT20090723AAO	259.3
Yes	KDTP	D11	DT	CP	HOLBROOK, AZ	BLANK00000036124	153.1
No	DKSWT	D11	DT	BL	YUMA, AZ	DTVBL74449	259.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D10  
Latitude: 33 20 3.30 N (NAD83)  
Longitude: 112 3 43.20 W  
Height AMSL: 878.2 m  
HAAT: 521.0 m  
Peak ERP: 38.4 kW  
Antenna: DIE-TL8-V8 (ID 85185) 0.0 deg  
Elev Pattn: Generic  
Elec Tilt: 0.75

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	30.6 kW	539.0 m	118.8 km
45.0	38.4	503.1	119.0
90.0	31.0	495.6	116.6
135.0	16.8	520.4	112.5
180.0	12.8	534.2	111.0
225.0	15.9	537.9	112.9
270.0	13.1	482.9	108.0
315.0	16.3	551.9	113.9

Distance to Canadian border: 1741.1 km

\*\*Proposal is within coordination distance of Mexican border

Distance to Mexican border: 176.1 km

Conditions at FCC monitoring station: Douglas AZ

Bearing: 131.4 degrees Distance: 304.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 36.8 degrees Distance: 967.0 km

Study cell size: 2.00 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%

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Interference to BLANK0000001462 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KGUN-TV	D9	DT	LIC	TUCSON, AZ	BLANK0000001462	
Undesireds:	KSAZ-TV	D10	DT	BL	PHOENIX, AZ	DTVBL35587	162.0 km
	KSAZ-TV	D10	DX	APP	PHOENIX, AZ	00687_12052020_KSAZ_35	162.0
	KAET	D8	DT	LIC	PHOENIX, AZ	BLEDT20090612AEF	162.1
	KECY-TV	D9	DT	LIC	EL CENTRO, CA	BLCDT20090723AAO	391.2

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
54346.3	1,552,522	46422.1	1,428,682	46041.6	1,407,110	46073.6	1,407,122	-0.07	-0.00

2568.2	221,271	1762.0	161,610	1762.0	161,610	1762.0	161,610	0.00	0.00	(in Mexico)
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Undesired		Total IX	Unique IX, before	Unique IX, after
KSAZ-TV D10 DT BL	292.0	21,444	48.0	249
KSAZ-TV D10 DX APP	231.9	21,011		15.9 237
KAET D8 DT LIC	263.9	21,214	20.0	19 44.0 256
KECY-TV D9 DT LIC	80.7	293	68.6	109 68.6 109

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Interference to BLANK0000036124 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDTP	D11	DT	CP	HOLBROOK, AZ	BLANK0000036124	
Undesireds:	KSAZ-TV	D10	DT	BL	PHOENIX, AZ	DTVBL35587	153.2 km
	KSAZ-TV	D10	DX	APP	PHOENIX, AZ	00687_12052020_KSAZ_35	153.1
	DKSWT	D11	DT	BL	YUMA, AZ	DTVBL74449	384.3
	KPNX	D12	DT	LIC	MESA, AZ	BLCDT20090618AAM	153.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
43015.9 1,937,500	34562.6	808,327 34078.9 555,864	34074.9 554,485	0.01 0.25

Undesired		Total IX	Unique IX, before	Unique IX, after
KSAZ-TV D10 DT BL	423.6	249,260	8.0	0
KSAZ-TV D10 DX APP	411.6	249,970		12.0 1,379
DKSWT D11 DT BL	4.0	21	0.0	0 0.0 0
KPNX D12 DT LIC	475.8	252,463	60.1	3,203 76.1 3,872

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Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSAZ-TV	D10	DX	APP	PHOENIX, AZ	00687_12052020_KSAZ_35	
Undesireds:	KGUN-TV	D9	DT	LIC	TUCSON, AZ	BLANK0000001462	162.0 km
	KDTP	D11	DT	CP	HOLBROOK, AZ	BLANK0000036124	153.1

Service area	Terrain-limited	IX-free	Percent IX
40912.3 4,190,940	33486.8	4,173,019 33298.6 4,173,019	0.56 0.00

Undesired		Total IX	Unique IX	Prcnt Unique IX
KGUN-TV D9 DT LIC	64.0	49	64.0	49 0.19 0.00
KDTP D11 DT CP	124.1	0	124.1	0 0.37 0.00

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Interference to proposal scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSAZ-TV	D10	DX	APP	PHOENIX, AZ	00687_12052020_KSAZ_35	
Undesireds:	KGUN-TV	D9	DT	LIC	TUCSON, AZ	BLANK0000001462	162.0 km
	Service area			Terrain-limited		IX-free	Percent IX
40912.3	4,190,940	33486.8		4,173,068	33422.7	4,173,019	0.19 0.00
Undesired				Total IX		Unique IX	Prcnt Unique IX
KGUN-TV D9 DT LIC		64.0		49	64.0	49	0.19 0.00