

Interference Considerations  
**KTVW License Partnership, G.P.**  
KTVW-DT Phoenix, AZ  
Ch 33 560 kW-DA 521 m

The proposed ERP increased of KTVW-DT was evaluated under both pre-cutover and post-cutover conditions. For the pre-cutover case, the TVStudy Interference Check study builder was adjusted to exclude all stations not presently operating on channels 32-34 from interference scenarios and the undesired station sets for the scenarios of stations currently using such channels. For the post-cutover case, the scenarios created were reviewed to ensure that no stations departing channels 31-35 were included. The relevant TVStudy analysis data printouts are attached hereto.

# KTVW\_Pre\_Cutover

tvstudy v2.2.4 (Z20qz3)

Database: local host, Study: KTVW Pre-Cutover, Model: Longley-Rice  
Start: 2017.11.26 22:27:50

Study last edited: 2017.11.26 22:27:43

Proposal: KTVW-DT D33 DT LIC PHOENIX, AZ  
File number: BLCDDT20100818ABA  
Facility ID: 35705  
Station data: User record  
Record ID: 15  
Country: U.S.  
Zone: II

Proposal "before": KTVW-DT D33 DT BL PHOENIX, AZ  
File number: DTVBL35705  
Facility ID: 35705  
Station data: LMS TV 2017-11-20 (1)  
Record ID: DTVBL35705  
Country: U.S.

Study has been edited. Stations studied for impact of proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KOLD-TV	D32		DT LIC	TUCSON, AZ	BLCDDT20030911AAI	162.1 km

Record parameters as studied:

Channel: D33  
Latitude: 33 20 0.00 N (NAD83)  
Longitude: 112 3 49.00 W  
Height AMSL: 878.6 m  
HAAT: 510.0 m  
Peak ERP: 560 kW  
Antenna: AND-ATW25H4-ETC-33S (ID 87270) 0.0 deg  
Elev Pattn: Generic  
Elec Tilt: 1.00

40.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	525 kW	539.2 m	112.0 km
45.0	548	501.6	109.8
90.0	452	495.2	107.4
135.0	209	521.5	102.3
180.0	80.0	534.2	94.9
225.0	105	539.4	97.7
270.0	113	484.1	93.9
315.0	392	552.4	110.1

Database HAAT does not agree with computed HAAT  
Database HAAT: 510 m Computed HAAT: 521 m

ERP exceeds maximum  
ERP: 560 kW ERP maximum: 458 kW

Distance to Canadian border: 1741.2 km

\*\*Proposal is within coordination distance of Mexican border  
Distance to Mexican border: 175.9 km

Conditions at FCC monitoring station: Douglas AZ

## KTVW\_Pre\_Cutover

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: 967.2 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 BLCDT20030911AAI LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOLD-TV	D32	DT	LIC	TUCSON, AZ	BLCDT20030911AAI	
Undesireds:	KTVW-DT	D33	DT	BL	PHOENIX, AZ	DTVBL35705	162.1 km
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDT20100818ABA	162.1
	KPPX-TV	D31	DT	CP	TOLLESON, AZ	BLANK0000029687	162.0
	XHNSS	D31	DT	LIC	NOGALES, SO	BLANKBPFS20140603AAN	127.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37049.1	1,216,228	25424.7	887,754	25185.0	885,079	25185.0	0.00 0.00
2.3	8	2.3	8	2.3	8	2.3	0.00 0.00 (in Mexico)
Undesired	Total IX			Unique IX, before		Unique IX, after	
KTVW-DT D33 DT BL	84.2			14		0.0	0
KTVW-DT D33 DT LIC	92.2			14		0.0	0
KPPX-TV D31 DT CP	152.5			15		60.3	1
XHNSS D31 DT LIC	87.2			2,660		87.2	2,660

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Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDT20100818ABA	
Undesireds:	KOLD-TV	D32	DT	LIC	TUCSON, AZ	BLCDT20030911AAI	162.1 km
	KUVE-DT	D34	DT	APP	GREEN VALLEY, AZ	BLANK0000034005	162.0
	LICITACION	D33	DT	LIC	SAN LUIS RIO COLORAD, SO	BLANKBPFSXXX0016XXX	271.2
Service area		Terrain-limited		IX-free		Percent IX	
33803.5	4,174,310	27249.5	4,160,877	27229.5	4,160,873	0.07	0.00
Undesired	Total IX			Unique IX		Prcnt Unique IX	
KOLD-TV D32 DT LIC	4.0			4		0.00	0.00
KUVE-DT D34 DT APP	16.0			4		0.04	0.00
LICITACION D33 DT LIC	4.0			0		0.01	0.00

# KTVW\_Post\_Cutover

tvstudy v2.2.4 (Z20qz3)

Database: local host, Study: KTVW Post-Cutover, Model: Longley-Rice  
Start: 2017.11.26 22:31:11

Study last edited: 2017.11.26 22:31:06

Proposal: KTVW-DT D33 DT LIC PHOENIX, AZ  
File number: BLCDT20100818ABA  
Facility ID: 35705  
Station data: User record  
Record ID: 15  
Country: U.S.  
Zone: II

Proposal "before": KTVW-DT D33 DT BL PHOENIX, AZ  
File number: DTVBL35705  
Facility ID: 35705  
Station data: LMS TV 2017-11-20 (1)  
Record ID: DTVBL35705  
Country: U.S.

Study has been edited. Stations studied for impact of proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KOLD-TV	D32		DT LIC	TUCSON, AZ	BLCDT20030911AAI	162.1 km
KUVE-DT	D34		DT APP	GREEN VALLEY, AZ	BLANK0000034005	162.0
KUVE-DT	D34		DT CP	GREEN VALLEY, AZ	BLANK0000025109	162.0
KUVE-DT	D34		DT BL	GREEN VALLEY, AZ	DTVBL63927	162.0

Record parameters as studied:

Channel: D33  
Latitude: 33 20 0.00 N (NAD83)  
Longitude: 112 3 49.00 W  
Height AMSL: 878.6 m  
HAAT: 510.0 m  
Peak ERP: 560 kW  
Antenna: AND-ATW25H4-ETC-33S (ID 87270) 0.0 deg  
Elev Pattern: Generic  
Elec Tilt: 1.00

40.6 dBu contour:

Azimuth	ERP	HAAT	Distance
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45.0	548	501.6	109.8
90.0	452	495.2	107.4
135.0	209	521.5	102.3
180.0	80.0	534.2	94.9
225.0	105	539.4	97.7
270.0	113	484.1	93.9
315.0	392	552.4	110.1

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## KTVW\_Post\_Cutover

Distance to Mexican border: 175.9 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: 967.2 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 BLCDT20030911AAI LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOLD-TV	D32	DT	LIC	TUCSON, AZ	BLCDT20030911AAI	
Undesireds:	KTVW-DT	D33	DT	BL	PHOENIX, AZ	DTVBL35705	162.1 km
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDT20100818ABA	162.1
	KPPX-TV	D31	DT	CP	TOLLESON, AZ	BLANK0000029687	162.0
	XHNSS	D31	DT	LIC	NOGALES, SO	BLANKBPFS20140603AAN	127.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37049.1	1,216,228	25424.7	887,754	25185.0	885,079	25185.0	885,079
2.3	8	2.3	8	2.3	8	2.3	8
							0.00 0.00
							0.00 0.00 (in Mexico)
Undesired				Total IX	Unique IX, before	Unique IX, after	
KTVW-DT D33 DT BL				84.2	14	0	
KTVW-DT D33 DT LIC				92.2	14	0	
KPPX-TV D31 DT CP				152.5	15	60.3	1
XHNSS D31 DT LIC				87.2	2,660	87.2	2,660

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Interference to BLCDT20030911AAI LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOLD-TV	D32	DT	LIC	TUCSON, AZ	BLCDT20030911AAI	
Undesireds:	KTVW-DT	D33	DT	BL	PHOENIX, AZ	DTVBL35705	162.1 km
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDT20100818ABA	162.1
	KPPX-TV	D31	DT	APP	TOLLESON, AZ	BLANK0000035245	162.0
	XHNSS	D31	DT	LIC	NOGALES, SO	BLANKBPFS20140603AAN	127.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37049.1	1,216,228	25424.7	887,754	25185.0	885,079	25185.0	885,079
2.3	8	2.3	8	2.3	8	2.3	8
							0.00 0.00
							0.00 0.00 (in Mexico)
Undesired				Total IX	Unique IX, before	Unique IX, after	
KTVW-DT D33 DT BL				84.2	14	0	
KTVW-DT D33 DT LIC				92.2	14	0	
KPPX-TV D31 DT APP				152.5	15	60.3	1
XHNSS D31 DT LIC				87.2	2,660	87.2	2,660

## KTVW\_Post\_Cutover

Interference to BLANK0000034005 APP scenario 1

Desired:	Call KUVE-DT	Chan D34	Svc DT	Status APP	City, State GREEN VALLEY, AZ	File Number BLANK0000034005	Distance			
Undesireds:	KTVW-DT	D33	DT	BL	PHOENIX, AZ	DTVBL35705	162.0 km			
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDDT20100818ABA	162.0			
	KFPH-CD	D35	DC	LIC	PHOENIX, AZ	BLDTA20110405AAY	162.0			
	LICITACI OND	D34	DT	LIC	CABORCA, SO	BLANKBPFS162525XXX	231.8			
	XHCNS	D34	DT	LIC	CANANEA, SO	BLANKBPFS20160301AAQ	164.4			
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX			
41213.9	1,294,971	29507.7		964,396	28916.7	959,622	28892.7	959,429	0.08	0.02
431.6	126,057	188.8		1,322	188.8	1,322	188.8	1,322	0.00	0.00
(in Mexico)										
Undesired				Total IX	Unique IX, before	Unique IX, after				
KTVW-DT D33 DT BL				116.0	1,359	64.1	1,212			
KTVW-DT D33 DT LIC				144.0	2,029		88.1	1,405		
KFPH-CD D35 DC LIC				55.9	624	4.0	477	0.0	0	
LICITACI OND34 DT LIC				99.9	8	96.0	7	96.0	7	
XHCNS D34 DT LIC				375.0	2,931	371.1	2,930	371.1	2,930	

Interference to BLANK0000025109 CP scenario 1

Desired:	Call KUVE-DT	Chan D34	Svc DT	Status CP	City, State GREEN VALLEY, AZ	File Number BLANK0000025109	Distance			
Undesireds:	KTVW-DT	D33	DT	BL	PHOENIX, AZ	DTVBL35705	162.0 km			
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDDT20100818ABA	162.0			
	KFPH-CD	D35	DC	LIC	PHOENIX, AZ	BLDTA20110405AAY	162.0			
	LICITACI OND34	DT	LIC		CABORCA, SO	BLANKBPFS162525XXX	231.8			
	XHCNS	D34	DT	LIC	CANANEA, SO	BLANKBPFS20160301AAQ	164.4			
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX			
39439.6	1,264,962	28229.1		940,333	27717.6	937,095	27713.6	937,095	0.01	0.00
78.3	14,187	34.0		10	34.0	10	34.0	10	0.00	0.00
										(in Mexico)
Undesired				Total IX	Unique IX, before	Unique IX, after				
KTVW-DT D33 DT BL		116.0		536	68.1	535				
KTVW-DT D33 DT LIC		124.0		536		72.1	535			
KFPH-CD D35 DC LIC		52.0		1	4.0	0.0	0			
LICITACI OND34 DT LIC		59.9		967	51.8	51.8	0			
XHCNS D34 DT LIC		339.7		2,702	331.6	1,735	331.6	1,735		

Interference to DTVBL63927 BL scenario 1

Desired:	Call KUVE-DT	Chan D34	Svc DT	Status BL	City, State GREEN VALLEY, AZ	File Number DTVBL63927	Distance
Undesireds:	KTVW-DT	D33	DT	BL	PHOENIX, AZ	DTVBL35705	162.0 km
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDDT20100818ABA	162.0
	KFPH-CD	D35	DC	LIC	PHOENIX, AZ	BLDTA20110405AAY	162.0
	LICITACI OND	D34	DT	LIC	CABORCA, SO	BLANKBPFS162525XXX	231.8
	XHCNS	D34	DT	LIC	CANANEA, SO	BLANKBPFS20160301AAQ	164.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
39431.5	1,264,962	28128.6	937,418	27629.0	934,641	27629.0	934,641
78.3	14,187	31.8	2	31.8	2	31.8	2
							0.00 0.00
							0.00 0.00 (in Mexico)

				KTVW_Post_Cutover			
Undesi red				Total IX	Uni que IX, before	Uni que IX, after	
KTVW-DT D33 DT BL	116.0			355	68.1	354	
KTVW-DT D33 DT LIC	120.0			355		68.1	354
KFPH-CD D35 DC LIC	52.0			1	4.0	0	0
LICITACION D34 DT LIC	63.9			967	55.8	0	55.8
XHCNS D34 DT LIC	323.7			2,422	315.7	1,455	315.7
							1,455

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Interference to proposal scenario 1

Desi red:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDT20100818ABA	
Undesi reds:	KOLD-TV	D32	DT	LIC	TUCSON, AZ	BLCDT20030911AAI	162.1 km
	KUVE-DT	D34	DT	APP	GREEN VALLEY, AZ	BLANK0000034005	162.0
	LICITACION	D33	DT	LIC	SAN LUIS RIO COLORAD, SO	BLANKBPFSXXXX0016XXX	271.2
	Service area			Terrain-limited		IX-free	Percent IX
33803.5	4,174,310			27249.5	4,160,877	27229.5	4,160,873
							0.07 0.00
Undesi red				Total IX		Uni que IX	Prcnt Uni que IX
KOLD-TV D32 DT LIC	4.0			4	0.0	0	0.00 0.00
KUVE-DT D34 DT APP	16.0			4	12.0	0	0.04 0.00
LICITACION D33 DT LIC	4.0			0	4.0	0	0.01 0.00

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Interference to proposal scenario 2

Desi red:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDT20100818ABA	
Undesi reds:	KOLD-TV	D32	DT	LIC	TUCSON, AZ	BLCDT20030911AAI	162.1 km
	KUVE-DT	D34	DT	CP	GREEN VALLEY, AZ	BLANK0000025109	162.0
	LICITACION	D33	DT	LIC	SAN LUIS RIO COLORAD, SO	BLANKBPFSXXXX0016XXX	271.2
	Service area			Terrain-limited		IX-free	Percent IX
33803.5	4,174,310			27249.5	4,160,877	27233.5	4,160,873
							0.06 0.00
Undesi red				Total IX		Uni que IX	Prcnt Uni que IX
KOLD-TV D32 DT LIC	4.0			4	0.0	0	0.00 0.00
KUVE-DT D34 DT CP	12.0			4	8.0	0	0.03 0.00
LICITACION D33 DT LIC	4.0			0	4.0	0	0.01 0.00

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Interference to proposal scenario 3

Desi red:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVW-DT	D33	DT	LIC	PHOENIX, AZ	BLCDT20100818ABA	
Undesi reds:	KOLD-TV	D32	DT	LIC	TUCSON, AZ	BLCDT20030911AAI	162.1 km
	KUVE-DT	D34	DT	BL	GREEN VALLEY, AZ	DTVBL63927	162.0
	LICITACION	D33	DT	LIC	SAN LUIS RIO COLORAD, SO	BLANKBPFSXXXX0016XXX	271.2
	Service area			Terrain-limited		IX-free	Percent IX
33803.5	4,174,310			27249.5	4,160,877	27229.5	4,160,857
							0.07 0.00
Undesi red				Total IX		Uni que IX	Prcnt Uni que IX
KOLD-TV D32 DT LIC	4.0			4	0.0	0	0.00 0.00
KUVE-DT D34 DT BL	16.0			20	12.0	16	0.04 0.00
LICITACION D33 DT LIC	4.0			0	4.0	0	0.01 0.00