

# INTERFERENCE ANALYSIS FOR PROPOSED K42IK-D, TOHATCHI, NM, CHANNEL 34

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: K42IK34-183WBB, Model: Longley-Rice

Study build station data: LMS TV 2018-04-09

Proposal: K42IK-D D34 LD APP TOHATCHI, NM  
File number: K42IK34-183WBB  
Facility ID: 35319  
Station data: User record  
Record ID: 2654  
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

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
No	K19CM-D	N19z	TX	LIC	FARMINGTON, NM	BLTT20060511ABS	97.7 km
No	K30GL	N30+	TX	LIC	MANY FARMS, AZ	BLTT20031205ABO	67.5
No	KRTN-TV	D33	DD	APP	DURANGO, CO	BPCDT20130201BGY	169.7
No	KRTN-TV	D33	DT	LIC	DURANGO, CO	BLCDT20081029AAA	169.7
No	K33GA-D	D33	LD	LIC	GRANTS, MILAN, NM	BLDTT20110510ACI	118.0
No	K33JO-D	D33	LD	LIC	BLUFF & AREA, UT	BLDTT20091222AMK	166.6
No	K33JN-D	D33	LD	LIC	MONTEZUMA CK & ANETH, UT	BLDTT20091222AMJ	157.1
No	KUVE-DT	D34	DT	CP	GREEN VALLEY, AZ	BLANK0000034005	427.4
No	K34EE-D	D34	LD	LIC	PRESCOTT-COTTONWOOD, AZ	BLDTT20120521ACZ	332.3
No	K21GC	D34	LD	CP	SAFFORD, AZ	BDISDTT20090630AAH	375.4
No	K34IA-D	D34	LD	LIC	DOVE CREEK, ETC, CO	BLDTT20120615ABN	206.2
No	K51DI-D	D34	LD	APP	SARGENTS, CO	BLANK0000034297	360.5
No	K34FU	N34-	TX	LIC	ARREY & DERRY, NM	BLTT20040325ACF	356.1
Yes	K34HF-D	D34	LD	LIC	CUBA, NM	BLDTT20060718ABG	174.0
No	KFNM-LD	D34	LD	LIC	FARMINGTON, NM	BLANK0000007539	97.5
No	NEW	D34	LD	APP	MAGDALENA, NM	BNPDTL20100513AEA	293.5
No	K34FO-D	D34	LD	LIC	ALTON, UT	BLDTT20090213ADG	372.9
No	K34GN-D	D34	LD	LIC	BICKNELL & TEASDALE, UT	BLDTT20110222ABF	358.5
No	K34JO-D	D34	LD	LIC	BLUFF & AREA, UT	BLDTT20091222AMM	166.6
No	K34IY-D	D34	LD	LIC	BOULDER, UT	BLDTT20090407ABX	322.8
No	K34JN-D	D34	LD	LIC	MONTEZUMA CREEK-ANET, UT	BLDTT20091222AML	157.1
No	K35CH-D	D35	LD	LIC	CORTEZ, MANCOS, ETC, CO	BLDTT20090522ABN	171.2
No	KNME-TV	D35	DT	LIC	ALBUQUERQUE, NM	BLEDT20030218BNH	223.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D34

Mask: Stringent  
Latitude: 35 54 31.10 N (NAD83)  
Longitude: 108 46 26.50 W  
Height AMSL: 2763.0 m  
HAAT: 0.0 m  
Peak ERP: 0.183 kW  
Antenna: SCA-4DR-8-2HW (ID 20751) 180.0 deg  
Elev Pattnr: Generic

50.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	368.6 m	4.3 km
45.0	0.000	713.0	4.9
90.0	0.092	786.7	38.9
135.0	0.161	841.3	43.2
180.0	0.183	789.4	43.1
225.0	0.169	623.4	39.9
270.0	0.094	322.0	28.9
315.0	0.000	117.1	3.0

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 570 m

Distance to Canadian border: 1455.0 km

Distance to Mexican border: 461.4 km

Conditions at FCC monitoring station: Douglas AZ  
Bearing: 189.7 degrees Distance: 496.6 km

Proposal is not within the West Virginia quiet zone area

# INTERFERENCE ANALYSIS FOR PROPOSED K42IK-D, TOHATCHI, NM, CHANNEL 34

Conditions at Table Mountain receiving zone:  
Bearing: 32.3 degrees Distance: 560.2 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 BLDTT20060718ABG LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K34HF-D	D34	LD	LIC	CUBA, NM	BLDTT20060718ABG	
Undesireds:	K42IK-D	D34	LD	APP	TOHATCHI, NM	K42IK34-183WBB	174.0 km
	K33BN-D	D33z	LD	LIC	Picuris Pueblo, NM	BLANK0000040298	103.4
	K34GI	N34+	TX	LIC	TRINIDAD, CO	BLTTL20050613ABW	248.4
	KFNM-LD	D34	LD	LIC	FARMINGTON, NM	BLANK0000007539	140.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1878.8		2,078		1699.9		1,850	0.12 0.00
				1698.9		1,850	
Undesired				Total IX		Unique IX, before	Unique IX, after
K42IK-D D34 LD APP		3.0		0		2.0	0
KFNM-LD D34 LD LIC		1.0		0		0.0	0
				1.0		0	

## ----- Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42IK-D	D34	LD	APP	TOHATCHI, NM	K42IK34-183WBB	
Undesireds:	K34HF-D	D34	LD	LIC	CUBA, NM	BLDTT20060718ABG	174.0 km
	KFNM-LD	D34	LD	LIC	FARMINGTON, NM	BLANK0000007539	97.5
Service area		Terrain-limited		IX-free		Percent IX	
2987.1		32,937		2511.1		15,524	0.60 0.00
				2495.9		15,524	
Undesired				Total IX		Unique IX	Prcnt Unique IX
K34HF-D D34 LD LIC		7.1		0		0	0.00 0.00
KFNM-LD D34 LD LIC		15.2		0		0	0.32 0.00
				8.1		0	