

INTERFERENCE ANALYSIS FOR PROPOSED K49DO-D ON CHANNEL 36 AT SEILING, OKLAHOMA

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: k49do36pl, Model: Longley-Rice

Study build station data: LMS TV 2017-10-02 (63)

Proposal: K49D036P1 D36 LD APP SEILING, OK
File number: k49do36pl
Facility ID: 59848
Station data: User record
Record ID: 1474
Country: U.S.

Build options:
Protect records not on baseline channel
Protect baseline records from LPTV

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KUOK	D35	DT	LIC	WOODWARD, OK	BLANK0000004509	48.4 km
K36IY-D	D36	LD	LIC	WEATHERFORD, OK	BLDTT20100225ABI	69.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D36
Mask: Simple
Latitude: 36 5 35.00 N (NAD83)
Longitude: 98 57 16.00 W
Height AMSL: 679.2 m
HAAT: 0.0 m
Peak ERP: 0.500 kW
Antenna: Omnidirectional
Elev Pattn: Generic

50.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.500 kW	142.5 m	29.0 km
45.0	0.500	152.2	29.6
90.0	0.500	90.1	24.4
135.0	0.500	156.6	29.9
180.0	0.500	129.4	28.1
225.0	0.500	139.9	28.8
270.0	0.500	94.0	24.9
315.0	0.500	124.0	27.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 129 m

Distance to Canadian border: 1434.6 km

Distance to Mexican border: 738.4 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 4.7 degrees Distance: 538.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.1 degrees Distance: 707.4 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%

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Interference to BLANK0000004509 LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	KUOK	D35	DT	LIC	WOODWARD, OK	BLANK0000004509			
Undesireds:	K49DO36P1	D36	LD	APP	SEILING, OK	k49do36p1	48.4 km		
	KOMI-CD	D34	DC	LIC	WOODWARD, OK	BLANK0000014011	0.0		
	KMTW	D35	DT	LIC	HUTCHINSON, KS	BLCDT20030117AAE	252.4		
Service area		Terrain-limited		IX-free, before		IX-free, after			
9606.8	28,973	9307.5	28,937	5019.0	24,154	5018.0	24,154		
						Percent New IX			
						0.02			
						0.00			
Undesired				Total IX	Unique IX, before	Unique IX, after			
K49DO36P1 D36 LD APP				313.6	542	1.0	0		
KOMI-CD D34 DC LIC				4280.5	4,783	3901.6	4,222		
KMTW D35 DT LIC				74.4	19	8.0	0		

Interference to BLDTT20100225ABI LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K36IY-D	D36	LD	LIC	WEATHERFORD, OK	BLDTT20100225ABI			
Undesireds:	K49DO36P1	D36	LD	APP	SEILING, OK	k49do36p1	69.8 km		
	KZMB-LD	D36	LD	LIC	ENID, OK	BLANK0000011115	178.7		
	K36AB-D	D36	LD	LIC	LAWTON, OK	BLDTT20091229ACY	105.2		
	KUOK-CD	D36	DC	LIC	OKLAHOMA CITY, OK	BLDTA20110128AAA	110.9		
Service area		Terrain-limited		IX-free, before		IX-free, after			
1981.3	27,491	1941.6	27,413	1918.8	27,386	1910.8	27,362		
						Percent New IX			
						0.41			
						0.09			
Undesired				Total IX	Unique IX, before	Unique IX, after			
K49DO36P1 D36 LD APP				8.9	24	7.9	24		
K36AB-D D36 LD LIC				19.9	27	18.9	27		
KUOK-CD D36 DC LIC				3.0	0	3.0	0		

Interference to proposal, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K49DO36P1	D36	LD	APP	SEILING, OK	k49do36p1			
Undesireds:	KZMB-LD	D36	LD	LIC	ENID, OK	BLANK0000011115	142.8 km		
	K36IY-D	D36	LD	LIC	WEATHERFORD, OK	BLDTT20100225ABI	69.8		
Service area		Terrain-limited		IX-free		Percent IX			
2471.1	3,507	2416.6	3,504	2403.4	3,504	0.55	0.00		
						Percent Unique IX			
						0.55			
						0.00			
Undesired				Total IX	Unique IX	Prcnt Unique IX			
K36IY-D D36 LD LIC				13.2	0	0.55	0.00		