

INTERFERENCE ANALYSIS FOR PROPOSED K43KU-D ON CHANNEL 16 AT SEILING, OKLAHOMA

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: k43kul6p5, Model: Longley-Rice

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

Proposal: K43KU16P5 D16 LD APP SEILING, OK
File number: k43kul6p5
Facility ID: 167254
Station data: User record
Record ID: 1470
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
K16JG-D	D16	LD	CP	CLINTON, OK	BNPDTL20100406ACF	62.5 km
K16DX-D	D16	LD	LIC	GAGE, OK	BLD TT20101007ACF	82.7
KOCM	D16	DT	CP	NORMAN, OK	BLANK0000025026	143.0
KOCM	D16	DT	BL	NORMAN, OK	DTVBL84225	143.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16
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

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.500 kW	142.5 m	31.2 km
45.0	0.500	152.2	31.9
90.0	0.500	90.1	26.7
135.0	0.500	156.6	32.1
180.0	0.500	129.4	30.4
225.0	0.500	139.9	31.1
270.0	0.500	94.0	27.2
315.0	0.500	124.0	30.0

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

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 BNPDTL20100406ACF CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K16JG-D	D16	LD	CP	CLINTON, OK	BNPDTL20100406ACF			
Undesireds:	K43KU16P5	D16	LD	APP	SEILING, OK	k43kul6p5	62.5 km		
	K49GC	D16+	LD	APP	LAWTON, OK	BLANK0000029991	112.5		
	KOCM	D16	DT	CP	NORMAN, OK	BLANK0000025026	126.2		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
1985.9		28,901		1983.9		1978.9	0.05		
				28,897		28,004	0.01		
Undesired				Total IX	Unique IX, before	Unique IX, after			
K43KU16P5 D16 LD APP				1.0	4	1.0	4		
KOCM D16 DT CP				4.0	893	4.0	893		

Interference to BLDTT20101007ACF LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K16DX-D	D16	LD	LIC	GAGE, OK	BLDTT20101007ACF			
Undesireds:	K43KU16P5	D16	LD	APP	SEILING, OK	k43kul6p5	82.7 km		
	K16AB-D	D16	LD	LIC	GUYMON, OK	BLDTT20100226AFE	154.5		
	K49GC	D16+	LD	APP	LAWTON, OK	BLANK0000029991	238.7		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
2648.9		6,461		2623.7		2610.6	0.46		
				6,396		6,302	0.25		
Undesired				Total IX	Unique IX, before	Unique IX, after			
K43KU16P5 D16 LD APP				13.1	110	12.1	16		
K16AB-D D16 LD LIC				1.0	94	0.0	0		

Interference to BLANK0000025026 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	KOCM	D16	DT	CP	NORMAN, OK	BLANK0000025026			
Undesireds:	K43KU16P5	D16	LD	APP	SEILING, OK	k43kul6p5	143.0 km		
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	2.4		
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	170.1		
	KTEN	D17	DT	CP	ADA, OK	BLANK0000027669	161.6		
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	148.3		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
18821.7		1,385,822		18783.8		18217.9	0.00		
				1,385,779		1,373,642	0.00		
Undesired				Total IX	Unique IX, before	Unique IX, after			
K43KU16P5 D16 LD APP				1.0	0	0.0	0		
KTBO-TV D15 DT LIC				418.0	6,280	358.1	5,627		
KWHB D16 DT CP				207.8	6,510	147.8	5,857		

Interference to BLANK0000025026 CP, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	KOCM	D16	DT	CP	NORMAN, OK	BLANK0000025026			
Undesireds:	K43KU16P5	D16	LD	APP	SEILING, OK	k43kul6p5	143.0 km		
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	2.4		
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	170.1		
	KTEN	D17	DT	CP	ADA, OK	BLANK0000027669	161.6		
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	148.3		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
18821.7		1,385,822		18783.8		18193.0	0.00		
				1,385,779		1,372,994	0.00		
Undesired				Total IX	Unique IX, before	Unique IX, after			
K43KU16P5 D16 LD APP				1.0	0	0.0	0		
KTBO-TV D15 DT LIC				418.0	6,280	354.1	5,595		
KWHB D16 DT BL				236.8	7,190	172.8	6,505		

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----- Interference to DTVBL84225 BL, scenario 1

Desired:	Call KOCM	Chan D16	Svc DT	Status BL	City, State NORMAN, OK	File Number DTVBL84225	Distance
Undesireds:	K43KU16P5	D16	LD	APP	SEILING, OK	k43kul6p5	143.0 km
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	2.4
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	170.1
	KTEN	D17	DT	CP	ADA, OK	BLANK0000027669	161.6
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	148.3
Service area		Terrain-limited			IX-free, before		Percent New IX
18829.7	1,385,856	18791.8	1,385,813		18222.9	1,373,576	0.00 0.00
Undesired		Total IX			Unique IX, before		Unique IX, after
K43KU16P5	D16 LD APP	1.0	0		0.0 0		
KTBO-TV	D15 DT LIC	419.0	6,345		357.1 5,675		357.1 5,675
KWHB	D16 DT CP	211.8	6,562		149.8 5,892		149.8 5,892

----- Interference to DTVBL84225 BL, scenario 2

Desired:	Call KOCM	Chan D16	Svc DT	Status BL	City, State NORMAN, OK	File Number DTVBL84225	Distance
Undesireds:	K43KU16P5	D16	LD	APP	SEILING, OK	k43kul6p5	143.0 km
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	2.4
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	170.1
	KTEN	D17	DT	CP	ADA, OK	BLANK0000027669	161.6
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	148.3
Service area		Terrain-limited			IX-free, before		Percent New IX
18829.7	1,385,856	18791.8	1,385,813		18200.0	1,372,963	0.00 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after
K43KU16P5	D16	LD	APP	1.0	0	0.0	0
KTBO-TV	D15	DT	LIC	419.0	6,345	352.0	5,640
KWHB	D16	DT	BL	239.8	7,210	172.8	6,505

----- Interference to proposal, scenario 1

Desired:	Call K43KU16P5	Chan D16	Svc LD	Status APP	City, State SEILING, OK	File Number k43kul6p5	Distance
Undesireds:	K16JG-D	D16	LD	CP	CLINTON, OK	BNPDTL20100406ACF	62.5 km
	K49GC	D16+	LD	APP	LAWTON, OK	BLANK0000029991	173.1
	KOCM	D16	DT	CP	NORMAN, OK	BLANK0000025026	143.0
	K17JN-D	D17	LD	APP	ENID, OK	BLANK0000030100	92.5
Service area		Terrain-limited		IX-free		Percent IX	
2881.4	3,840	2804.7	3,830	2727.7	3,808	2.74	0.57
Undesired				Total	IX	Unique	IX
K16JG-D	D16	LD	CP	57.8	17	57.8	17
KOCM	D16	DT	CP	18.2	5	18.2	5
K17JN-D	D17	LD	APP	1.0	0	1.0	0
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----- Interference to proposal, scenario 2

Desired:	Call K43KU16P5	Chan D16	Svc LD	Status APP	City, State SEILING, OK	File Number k43kul6p5	Distance
Undesireds:	K16JG-D	D16	LD	CP	CLINTON, OK	BNPDTL20100406ACF	62.5 km
	K49GC	D16+	LD	APP	LAWTON, OK	BLANK0000029991	173.1
	KOCM	D16	DT	CP	NORMAN, OK	BLANK0000025026	143.0
Service area		Terrain-limited			IX-free	Percent IX	
2881.4	3,840	2804.7	3,830		2728.7	3,808	2.71 0.57
Undesired				Total	IX	Unique	IX
K16JG-D	D16	LD	CP	57.8	17	57.8	17
KOCM	D16	DT	CP	18.2	5	18.2	5
							2.06 0.44
							0.65 0.13