

INTERFERENCE ANALYSIS FOR PROPOSED KOPX-TV OKLAHOMA CITY, OK (CHANNEL 18)

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: kopxl8m1, Model: Longley-Rice

Study build station data: LMS TV 2017-10-24 (75)

Proposal: KOPX18M1 D18 DT APP OKLAHOMA CITY, OK
File number: kopxl8m1
Facility ID: 2566
Station data: User record
Record ID: 1598
Country: U.S.
Zone: II

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KTEN	D17	DT	CP	ADA, OK	BLANK0000027669	161.6 km
KTEN	D17	DT	BL	ADA, OK	DTVBL35666	161.6
KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	301.9
KTXA	D18	DT	CP	FORT WORTH, TX	BLANK0000024934	343.0
KTXA	D18	DT	APP	FORT WORTH, TX	BLANK0000033718	343.0
KTXA	D18	DT	BL	FORT WORTH, TX	DTVBL51517	343.0
KAUT-TV	D19	DT	APP	OKLAHOMA CITY, OK	BLANK0000034050	4.2
KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000025374	3.2
KAUT-TV	D19	DT	BL	OKLAHOMA CITY, OK	DTVBL50182	0.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
Latitude: 35 35 52.10 N (NAD83)
Longitude: 97 29 23.20 W
Height AMSL: 828.9 m
HAAT: 480.0 m
Peak ERP: 455 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.8

39.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	455 kW	477.3 m	109.2 km
45.0	455	498.6	110.9
90.0	455	491.7	110.4
135.0	455	476.4	109.2
180.0	455	472.1	108.8
225.0	455	451.6	107.1
270.0	455	479.0	109.4
315.0	455	494.3	110.6

**Proposal service area extends beyond baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1428.5 km

Distance to Mexican border: 743.7 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 352.4 degrees Distance: 597.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 308.8 degrees Distance: 844.0 km

No land mobile station failures found

Study cell size: 0.50 km (Higher resolution cell size requested.)
Profile point spacing: 0.50 km (Higher resolution terrain profile point spacing requested.)

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

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Scenario comparisons

[illegible]

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Scenario comparisons

Case	Before		After		Percent	New IX
IX_DTVBL35666_BL_#24	37874.1	559,235	37754.1	556,627	0.32	0.47
IX_DTVBL35666_BL_#25	37872.7	558,515	37752.7	555,907	0.32	0.47
IX_DTVBL35666_BL_#26	37872.7	558,515	37752.7	555,907	0.32	0.47
IX_DTVBL35666_BL_#27	37872.7	558,515	37752.7	555,907	0.32	0.47
IX_DTVBL35666_BL_#28	37872.7	558,515	37752.7	555,907	0.32	0.47
IX_DTVBL35666_BL_#29	37872.7	558,515	37752.7	555,907	0.32	0.47
IX_DTVBL35666_BL_#30	37872.7	558,515	37752.7	555,907	0.32	0.47
IX_DTVBL35666_BL_#31	37872.7	558,515	37752.7	555,907	0.32	0.47
IX_DTVBL35666_BL_#32	37872.7	558,515	37752.7	555,907	0.32	0.47
IX_DTVBL35666_BL_#33	37868.1	558,398	37748.1	555,790	0.32	0.47
IX_DTVBL35666_BL_#34	37868.1	558,398	37748.1	555,790	0.32	0.47
IX_DTVBL35666_BL_#35	37875.6	559,235	37755.6	556,627	0.32	0.47
IX_DTVBL35666_BL_#36	37875.6	559,235	37755.6	556,627	0.32	0.47
IX_DTVBL35666_BL_#37	37868.1	558,398	37748.1	555,790	0.32	0.47
IX_DTVBL35666_BL_#38	37868.1	558,398	37748.1	555,790	0.32	0.47
IX_DTVBL35666_BL_#39	37875.6	559,235	37755.6	556,627	0.32	0.47
IX_DTVBL35666_BL_#40	37875.6	559,235	37755.6	556,627	0.32	0.47
IX_DTVBL35666_BL_#41	37868.1	558,398	37748.1	555,790	0.32	0.47
IX_DTVBL35666_BL_#42	37868.1	558,398	37748.1	555,790	0.32	0.47
IX_DTVBL35666_BL_#43	37875.6	559,235	37755.6	556,627	0.32	0.47
IX_DTVBL35666_BL_#44	37875.6	559,235	37755.6	556,627	0.32	0.47
IX_DTVBL35666_BL_#45	37868.1	558,398	37748.1	555,790	0.32	0.47
IX_DTVBL35666_BL_#46	37868.1	558,398	37748.1	555,790	0.32	0.47
IX_DTVBL35666_BL_#47	37875.6	559,235	37755.6	556,627	0.32	0.47
IX_DTVBL35666_BL_#48	37875.6	559,235	37755.6	556,627	0.32	0.47
IX_BLCDT20060530AIM_	25057.6	876,510	24862.7	873,517	0.78	0.34
IX_BLCDT20060530AIM_	25058.9	876,510	24863.9	873,517	0.78	0.34
IX_BLCDT20060530AIM_	25057.6	876,506	24862.7	873,513	0.78	0.34
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IX_BLCDT20060530AIM_	25058.9	876,506	24863.9	873,513	0.78	0.34
IX_BLCDT20060530AIM_	25055.4	876,439	24860.5	873,446	0.78	0.34
IX_BLCDT20060530AIM_	25056.7	876,439	24861.7	873,446	0.78	0.34
IX_BLCDT20060530AIM_	25057.9	876,510	24862.9	873,517	0.78	0.34
IX_BLCDT20060530AIM_	25059.1	876,510	24864.2	873,517	0.78	0.34
IX_BLCDT20060530AIM_	25055.4	876,435	24860.5	873,442	0.78	0.34
IX_BLCDT20060530AIM_	25056.7	876,435	24861.7	873,442	0.78	0.34
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IX_BLCDT20060530AIM_	25059.4	876,506	24864.4	873,513	0.78	0.34
IX_BLANK0000024934_C	44351.9	6,886,660	44303.9	6,885,933	0.11	0.01
IX_BLANK0000024934_C	44351.9	6,886,660	44303.9	6,885,933	0.11	0.01
IX_BLANK0000024934_C	44351.9	6,886,660	44303.9	6,885,933	0.11	0.01
IX_BLANK0000024934_C	44351.9	6,886,660	44303.9	6,885,933	0.11	0.01
IX_BLANK0000033718_A	45298.0	6,910,430	45247.3	6,909,456	0.11	0.01
IX_BLANK0000033718_A	45298.0	6,910,430	45247.3	6,909,456	0.11	0.01
IX_BLANK0000033718_A	45298.0	6,910,430	45247.3	6,909,456	0.11	0.01
IX_BLANK0000033718_A	45298.0	6,910,430	45247.3	6,909,456	0.11	0.01
IX_DTVBL51517_BL_#1	43559.4	6,870,160	43513.6	6,869,837	0.11	0.00
IX_DTVBL51517_BL_#2	43559.4	6,870,160	43513.6	6,869,837	0.11	0.00
IX_DTVBL51517_BL_#3	43559.4	6,870,160	43513.6	6,869,837	0.11	0.00
IX_DTVBL51517_BL_#4	43559.4	6,870,160	43513.6	6,869,837	0.11	0.00
IX_BLANK0000034050_A	38120.9	1,641,197	38098.6	1,640,768	0.06	0.03
IX_BLANK0000025374_C	34263.9	1,590,207	34192.2	1,589,566	0.21	0.04
IX_DTVBL50182_BL_#1	35800.1	1,601,869	35798.8	1,601,869	0.00	0.00