

INTERFERENCE ANALYSIS FOR PROPOSED KPXC-TV DENVER, CO (CHANNEL 18)

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: kpxc18m1, Model: Longley-Rice

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

Proposal: KPXC18M1 D18 DT APP DENVER, CO
File number: kpxc18m1
Facility ID: 68695
Station data: User record
Record ID: 1582
Country: U.S.
Zone: II

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KSBS-CD	D19	DC	CP	DENVER, CO	BLANK0000024844	50.1 km
KSBS-CD	D19	DC	BL	DENVER, CO	DTVBL168750	50.1

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: 40 5 59.00 N (NAD83)
Longitude: 104 54 4.00 W
Height AMSL: 1878.4 m
HAAT: 358.0 m
Peak ERP: 785 kW
Antenna: DIE-TUD-C5-14/70H-2-B (ID 1001567) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.8

39.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	581 kW	399.0 m	104.9 km
45.0	567	383.9	103.3
90.0	622	360.1	102.2
135.0	622	356.5	101.9
180.0	723	326.0	100.5
225.0	547	304.0	95.7
270.0	90.7	357.5	86.5
315.0	407	381.0	100.1

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

Distance to Canadian border: 989.2 km

Distance to Mexican border: 935.8 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 78.4 degrees Distance: 554.4 km

Proposal is not within the West Virginia quiet zone area

**Proposal is within coordination distance of Table Mountain receiving zone
**Proposal exceeds field strength limit at Table Mountain receiving zone
Conditions at Table Mountain receiving zone:
Bearing: 282.2 degrees Distance: 28.2 km
ERP: 108 kW Field strength: 97.9 dBu, 78.2 mV/m

No land mobile station failures found

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 BLANK0000024844 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSBS-CD	D19	DC	CP	DENVER, CO	BLANK0000024844	
Undesireds:	KPXC-TV	D18	DT	BL	DENVER, CO	DTVBL68695	50.1 km
	KPXC18M1	D18	DT	APP	DENVER, CO	kpxcl8m1	50.1
	KRMT	D20	DT	CP	DENVER, CO	BLANK0000024933	14.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4019.3	2,415,157	3880.0	2,399,824	3739.7	2,389,473	3691.3 2,385,908	1.29 0.15
Undesired			Total IX	Unique IX, before		Unique IX, after	
KPXC-TV D18 DT BL	92.5		6,399	76.6 5,493			
KPXC18M1 D18 DT APP	140.9		9,964			125.0 9,058	
KRMT D20 DT CP	63.7		4,858	47.8 3,952		47.8 3,952	

Interference to BLANK0000024844 CP, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSBS-CD	D19	DC	CP	DENVER, CO	BLANK0000024844	
Undesireds:	KPXC-TV	D18	DT	BL	DENVER, CO	DTVBL68695	50.1 km
	KPXC18M1	D18	DT	APP	DENVER, CO	kpxcl8m1	50.1
	KRMT	D20	DT	BL	DENVER, CO	DTVBL20476	14.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4019.3	2,415,157	3880.0	2,399,824	3739.7	2,389,473	3691.3 2,385,908	1.29 0.15
Undesired			Total IX	Unique IX, before		Unique IX, after	
KPXC-TV D18 DT BL	92.5		6,399	76.6 5,493			
KPXC18M1 D18 DT APP	140.9		9,964			125.0 9,058	
KRMT D20 DT BL	63.7		4,858	47.8 3,952		47.8 3,952	

Interference to DTVBL168750 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSBS-CD	D19	DC	BL	DENVER, CO	DTVBL168750	
Undesireds:	KPXC-TV	D18	DT	BL	DENVER, CO	DTVBL68695	50.1 km
	KPXC18M1	D18	DT	APP	DENVER, CO	kpxcl8m1	50.1
	KRMT	D20	DT	CP	DENVER, CO	BLANK0000024933	14.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4905.8	2,497,565	4730.4	2,476,700	4622.4	2,460,549	4566.0 2,448,347	1.22 0.50
Undesired			Total IX	Unique IX, before		Unique IX, after	
KPXC-TV D18 DT BL	60.1		14,196	44.3 13,508			
KPXC18M1 D18 DT APP	116.6		26,398			100.7 25,710	
KRMT D20 DT CP	63.7		2,643	47.8 1,955		47.8 1,955	

Interference to DTVBL168750 BL, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSBS-CD	D19	DC	BL	DENVER, CO	DTVBL168750	
Undesireds:	KPXC-TV	D18	DT	BL	DENVER, CO	DTVBL68695	50.1 km
	KPXC18M1	D18	DT	APP	DENVER, CO	kpxcl8m1	50.1
	KRMT	D20	DT	BL	DENVER, CO	DTVBL20476	14.6
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4905.8	2,497,565	4730.4	2,476,700	4622.4	2,460,549	4566.0 2,448,347	1.22 0.50
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