

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KNMD EXPANSION, Model: Longley-Rice
Start: 2020.12.18 13:06:04

Study created: 2020.12.18 13:06:04

Study build station data: LMS TV 2020-12-13

Proposal: KNMD-TV D8 DT LIC SANTA FE, NM
File number: KNMD EXPANSION
Facility ID: 84215
Station data: User record
Record ID: 710
Country: U.S.
Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KOAT-TV	D7	DT	LIC	ALBUQUERQUE, NM	BLCDT20090617ABU	0.3 km
No	KTSC	D8	DT	LIC	PUEBLO, CO	BLEDT20090612AAM	417.2
Yes	KOBR	D8	DT	LIC	ROSWELL, NM	BLCDT20090619AAX	319.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D8
Latitude: 35 12 44.10 N (NAD83)
Longitude: 106 26 59.00 W
Height AMSL: 3288.9 m
HAAT: 1274.0 m
Peak ERP: 16.6 kW
Antenna: MIC-TPV-SFN-B-3 (ID 105184) 0.0 deg

Elev Pattn: Generic
Elec Tilt: 3.00

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	16.6 kW	1188.4 m	131.6 km
45.0	16.6	1247.4	132.8
90.0	16.6	1140.7	130.6
135.0	16.6	944.9	126.0
180.0	16.6	1031.9	128.0
225.0	16.6	1529.5	137.6
270.0	16.6	1599.8	138.5
315.0	16.6	1492.5	137.1

Database HAAT does not agree with computed HAAT
Database HAAT: 1274 m Computed HAAT: 1272 m

ERP exceeds maximum

ERP: 16.6 kW ERP maximum: 8.54 kW

Distance to Canadian border: 1532.5 km

Distance to Mexican border: 381.1 km

Conditions at FCC monitoring station: Douglas AZ

Bearing: 216.7 degrees Distance: 508.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 10.6 degrees Distance: 555.3 km

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%

Interference to BLCDT20090617ABU LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	
Distance Desired:	KOAT-TV	D7	DT	LIC	ALBUQUERQUE, NM	BLCDT20090617ABU	
Undesireds: km	KNMD-TV	D8	DT	BL	SANTA FE, NM	DTVBL84215	0.3
	KNMD-TV	D8	DT	LIC	SANTA FE, NM	KNMD EXPANSION	0.3
	KVII-TV	D7	DT	CP	AMARILLO, TX	BLANK0000035799	414.8
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent
New IX	58478.5	1,153,633	54229.4	1,130,567	54193.5	1,130,547	54173.4
	0.01						1,130,476
							0.04
Undesired				Total IX	Unique IX, before	Unique IX, after	
KNMD-TV D8 DT BL		0.0		0	0.0	0	
KNMD-TV D8 DT LIC		20.0		71		20.0	71
KVII-TV D7 DT CP		35.9		20	35.9	20	20

Interference to BLCDT20090617ABU LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	
Distance Desired:	KOAT-TV	D7	DT	LIC	ALBUQUERQUE, NM	BLCDT20090617ABU	
Undesireds:	KNMD-TV	D8	DT	BL	SANTA FE, NM	DTVBL84215	0.3

km

KNMD-TV	D8	DT	LIC	SANTA FE, NM	KNMD EXPANSION	0.3
KVII-TV	D7	DT	LIC	AMARILLO, TX	BLCDT20090612AHC	414.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent
New IX 58478.5 0.01	1,153,633	54229.4	1,130,567	54213.4
		1,130,547	54193.4	1,130,476
				0.04

Undesired	Total IX	Unique IX, before	Unique IX, after
KNMD-TV D8 DT BL	0.0	0	0
KNMD-TV D8 DT LIC	20.0	71	20.0
KVII-TV D7 DT LIC	16.0	20	16.0

Interference to BLCDT20090619AAX LIC scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KOBR	D8	DT	LIC	ROSWELL, NM	BLCDT20090619AAX
Undesireds:	KNMD-TV	D8	DT	BL	SANTA FE, NM	DTVBL84215
km						319.7
	KNMD-TV	D8	DT	LIC	SANTA FE, NM	KNMD EXPANSION
	KOSA-TV	D7	DT	CP	ODESSA, TX	BLANK0000036068
	KWES-TV	D9	DT	LIC	ODESSA, TX	BLCDT20121210ACW
						319.7
						201.7
						175.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent
New IX 45881.5 0.02	211,709	45050.3	211,551	44540.8
		208,465	44193.3	208,419
				0.78

Undesired	Total IX	Unique IX, before	Unique IX, after
KNMD-TV D8 DT BL	227.6	10	227.6
KNMD-TV D8 DT LIC	575.1	56	575.1
			56

KWES-TV D9 DT LIC	281.9	3,076	281.9	3,076	281.9	3,076
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Interference to proposal scenario 1
0.56% interference received

Distance	Call	Chan	Svc	Status	City, State	File Number	
Desired:	KNMD-TV	D8	DT	LIC	SANTA FE, NM	KNMD EXPANSION	
Undesireds:	KOAT-TV	D7	DT	LIC	ALBUQUERQUE, NM	BLCDT20090617ABU	0.3
km	KOBR	D8	DT	LIC	ROSWELL, NM	BLCDT20090619AAX	319.7

Service area	Terrain-limited	IX-free	Percent IX
55530.3 1,150,387	51685.6 1,127,458	51254.4 1,121,132	0.83 0.56

Undesired	Total IX	Unique IX	Prcnt Unique IX
KOAT-TV D7 DT LIC	32.0 0	32.0 0	0.06 0.00
KOBR D8 DT LIC	399.2 6,326	399.2 6,326	0.77 0.56