

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: DaytonTX5D100wT, Model: Longley-Rice
Start: 2024.06.10 12:43:34

Study created: 2024.06.10 12:43:34

Study build station data: LMS TV 2024-06-02 #263

Proposal: KTDJ-LD D5 LD APP DAYTON, TX
Facility ID: 135827
Station data: User record
Record ID: 2529
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KPFW-LD	D5	LD	LIC	DALLAS, TX	BLANK0000105767	362.2 km
No	KCWX	D5	DT	LIC	FREDERICKSBURG, TX	BLANK0000191528	312.7
No	KXDA-LD	D5	LD	LIC	GARLAND, TX	BLANK0000004284	363.5
No	KLUF-LD	N5-	TX	LIC	LUFKIN, TX	BLTVL19951005IF	180.8
No	DKIPS-LD	D6	LD	APP	BEAUMONT, TX	BLDVL20130102AAX	126.3
No	DKIPS-LD	D6	LD	APP	BEAUMONT, TX	BPDVL20140113ADK	126.3
Yes	KCVH-LD	D6	LD	LIC	HOUSTON, TX	BLANK0000183660	31.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D5
Mask: Stringent
Latitude: 29 49 34.00 N (NAD83)
Longitude: 95 22 55.90 W

Height AMSL: 64.7 m
HAAT: 0.0 m
Peak ERP: 0.100 kW
Antenna: Omnidirectional
Elev Pattn: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.100 kW	41.5 m	17.4 km
45.0	0.100	46.5	18.5
90.0	0.100	47.9	18.8
135.0	0.100	54.6	20.1
180.0	0.100	50.7	19.4
225.0	0.100	47.0	18.6
270.0	0.100	41.3	17.4
315.0	0.100	37.6	16.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 46 m

Distance to Canadian border: 1734.3 km

Distance to Mexican border: 454.0 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 223.2 degrees Distance: 360.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 324.6 degrees Distance: 1451.3 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%

Interference to BLANK0000183660 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	KCVH-LD	D6	LD	LIC	HOUSTON, TX	BLANK0000183660			
Undesireds:	KTDJ-LD	D5	LD	APP	DAYTON, TX		31.8 km		
	DKIPS-LD	D6	LD	APP	BEAUMONT, TX	BLDV20130102AAX	148.3		
	KZFW-LD	D6-	LD	LIC	DALLAS, TX	BLANK0000179308	363.9		
	KFLZ-LD	D6-	LD	CP	SAN ANTONIO, TX	BLANK0000212980	288.9		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
16810.3	5,567,304	16810.3	5,567,304	16810.3	5,567,304	16806.2	5,559,140	0.02	0.15
Undesired		Total IX		Unique IX, before		Unique IX, after			
KTDJ-LD	D5 LD APP	4.0	8,164			4.0	8,164		

Interference to BLANK0000183660 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	KCVH-LD	D6	LD	LIC	HOUSTON, TX	BLANK0000183660			
Undesireds:	KTDJ-LD	D5	LD	APP	DAYTON, TX		31.8 km		
	DKIPS-LD	D6	LD	APP	BEAUMONT, TX	BPDVL20140113ADK	148.3		
	KZFW-LD	D6-	LD	LIC	DALLAS, TX	BLANK0000179308	363.9		
	KFLZ-LD	D6-	LD	CP	SAN ANTONIO, TX	BLANK0000212980	288.9		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
16810.3	5,567,304	16810.3	5,567,304	16798.2	5,566,691	16794.2	5,558,527	0.02	0.15
Undesired		Total IX		Unique IX, before		Unique IX, after			
KTDJ-LD	D5 LD APP	4.0	8,164			4.0	8,164		
DKIPS-LD	D6 LD APP	12.1	613	12.1	613	12.1	613		

Interference to proposal scenario 1
2.92% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTDJ-LD	D5	LD	APP	DAYTON, TX		
Undesireds:	KCVH-LD	D6	LD	LIC	HOUSTON, TX	BLANK00000183660	31.8 km
	Service area			Terrain-limited		IX-free	Percent IX
	1068.1 1,550,969	1068.1	1,550,969	1038.9	1,505,611	2.73	2.92
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KCVH-LD D6 LD LIC		29.2	45,358	29.2	45,358	2.73	2.92