tvstudy v2.2.2
Database: localhost, Study: KUVN 900 KW, Model: Longley-Rice
Start: 2017.06.21 12:38:37

Study created: 2017.06.21 12:38:28

Study build station data: LMS TV 2017-06-02 (11)

    Proposal: KUVN-DT D33 DT APP GARLAND, TX
 File number: KUVN 900 KW
 Facility ID: 35841
Station data: User record
   Record ID: 509
     Country: U.S.
        Zone: II

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
KDAF	D32	DT	LIC	DALLAS, TX	BLCDT20010606ABJ	5.2 km
KLPA-TV	D33	DT	BL	ALEXANDRIA, LA	DTVBL38590	431.8
KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL	332.5
KVUE	D33	DT	LIC	AUSTIN, TX	BLCDT20050624AAI	264.1
KWAB-TV	D33	DT	LIC	BIG SPRING, TX	BLCDT20090818AAN	425.6
KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	364.0
KSTR-DT	D34	DT	BL	IRVING, TX	DTVBL60534	5.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D33
   Latitude: 32 35 22.00 N (NAD83)
  Longitude: 96 58 12.90 W
Height AMSL: 709.0 m
       HAAT: 517.0 m
   Peak ERP: 900 kW
    Antenna: ERI-ATW30H4-ETC2-33H 0.0 deg

40.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	681 kW	552.2 m	115.2 km
45.0	887	502.5	114.4
90.0	607	506.9	111.1
135.0	64.9	501.8	90.9
180.0	99.2	476.1	92.3
225.0	120	526.3	97.8
270.0	710	536.4	114.6
315.0	856	541.5	116.6

Database HAAT does not agree with computed HAAT
Database HAAT: 517 m   Computed HAAT: 518 m

ERP exceeds maximum
ERP: 900 kW   ERP maximum: 465 kW

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1601.4 km

Distance to Mexican border: 520.4 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 189.0 degrees   Distance: 578.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 320.9 degrees   Distance: 1115.3 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 BLCDT20010606ABJ LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KDAF	D32	DT	LIC	DALLAS, TX	BLCDT20010606ABJ	
Undesireds:	KUVN-DT	D33	DT	BL	GARLAND, TX	DTVBL35841	5.2 km
	KUVN-DT	D33	DT	APP	GARLAND, TX	KUVN 900 KW	5.2
	KAZD	D31	DT	BL	LAKE DALLAS, TX	DTVBL17433	5.0
	KPXJ	D32	DT	BL	MINDEN, LA	DTVBL81507	283.7
	KPXB-TV	D32	DT	LIC	CONROE, TX	BLCDT20090612AHP	358.0
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDT20060608ACW	374.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36627.0	6,648,507	36434.0	6,645,226	36120.5	6,626,608	36124.6	6,632,801	-0.01	-0.09

Undesired	Total IX		Unique IX, before		Unique IX, after	
KUVN-DT D33 DT BL	200.6	17,223	132.3	14,045		
KUVN-DT D33 DT APP	176.4	10,734			128.2	7,852
KAZD D31 DT BL	161.1	4,371	92.7	1,193	112.9	1,489
KPXJ D32 DT BL	20.1	202	20.1	202	20.1	202

Interference to DTVBL38590 BL, scenario 1
Proposal causes no interference.

Interference to BLCDT20060615AAL LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL	
Undesireds:	KUVN-DT	D33	DT	BL	GARLAND, TX	DTVBL35841	332.5 km
	KUVN-DT	D33	DT	APP	GARLAND, TX	KUVN 900 KW	332.5
	KRSU-TV	D32	DT	BL	CLAREMORE, OK	DTVBL57431	193.8
	KNWA-TV	D33	DT	BL	ROGERS, AR	DTVBL29557	332.0
	KMYT-TV	D34	DT	BL	TULSA, OK	DTVBL54420	171.6
	KOMI-CD	D34	DC	LIC	WOODWARD, OK	BLANK0000014011	193.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
38591.2	1,629,783	38331.1	1,629,152	37972.0	1,626,165	38003.8	1,626,464	-0.08	-0.02

Undesired	Total IX		Unique IX, before		Unique IX, after	
KUVN-DT D33 DT BL	202.5	2,050	194.6	2,023		
KUVN-DT D33 DT APP	170.7	1,751			162.8	1,724
KNWA-TV D33 DT BL	108.3	514	84.3	268	84.3	268
KMYT-TV D34 DT BL	72.2	669	56.2	450	56.2	450

Interference to BLCDT20050624AAI LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVUE	D33	DT	LIC	AUSTIN, TX	BLCDT20050624AAI	
Undesireds:	KUVN-DT	D33	DT	BL	GARLAND, TX	DTVBL35841	264.1 km
	KUVN-DT	D33	DT	APP	GARLAND, TX	KUVN 900 KW	264.1
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDT20060608ACW	131.3
	KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	236.5
	KEYE-TV	D34	DT	BL	AUSTIN, TX	DTVBL33691	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
34415.6	2,661,290	33648.0	2,611,314	32066.8	2,506,788	32098.7	2,506,819	-0.10	-0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KUVN-DT D33 DT BL	87.6	12,492	59.8	8,355		
KUVN-DT D33 DT APP	55.8	12,461			27.9	8,324
KMYS D32 DT LIC	444.4	81,128	364.4	55,519	364.4	55,519
KTBU D33 DT BL	1157.0	40,652	1049.2	10,906	1049.2	10,906

Interference to BLCDT20090818AAN LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL28324 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	
Undesireds:	KUVN-DT	D33	DT	BL	GARLAND, TX	DTVBL35841	364.0 km
	KUVN-DT	D33	DT	APP	GARLAND, TX	KUVN 900 KW	364.0
	KPXB-TV	D32	DT	LIC	CONROE, TX	BLCDT20090612AHP	1.0
	KLPA-TV	D33	DT	BL	ALEXANDRIA, LA	DTVBL38590	360.5
	KVUE	D33	DT	LIC	AUSTIN, TX	BLCDT20050624AAI	236.5
	KIAH	D34	DT	BL	HOUSTON, TX	DTVBL23394	1.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39285.7	6,076,501	39225.6	6,076,173	38411.0	6,059,723	38411.0	6,059,723	0.00	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
KUVN-DT D33 DT BL	12.0	426	0.0	0	
KUVN-DT D33 DT APP	8.0	131		0.0	0
KPXB-TV D32 DT LIC	36.2	753	16.1	104	16.1	104
KLPA-TV D33 DT BL	8.0	18	0.0	0	0.0	0
KVUE D33 DT LIC	722.3	8,537	698.2	7,430	702.2	7,725
KIAH D34 DT BL	80.3	8,472	56.2	7,160	56.2	7,160

Interference to DTVBL60534 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSTR-DT	D34	DT	BL	IRVING, TX	DTVBL60534	
Undesireds:	KUVN-DT	D33	DT	BL	GARLAND, TX	DTVBL35841	5.2 km
	KUVN-DT	D33	DT	APP	GARLAND, TX	KUVN 900 KW	5.2
	KMSS-TV	D34	DT	LIC	SHREVEPORT, LA	BLCDT20050705AAB	283.6
	KMYT-TV	D34	DT	BL	TULSA, OK	DTVBL54420	404.6
	KEYE-TV	D34	DT	BL	AUSTIN, TX	DTVBL33691	259.6
	KIAH	D34	DT	BL	HOUSTON, TX	DTVBL23394	358.6
	KDFW	D35	DT	LIC	DALLAS, TX	BLCDT20090508AAB	5.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
35501.5	6,616,877	35328.6	6,614,825	34866.3	6,594,026	34882.3	6,600,448	-0.05	-0.10

Undesired	Total IX	Unique IX, before		Unique IX, after	
KUVN-DT D33 DT BL	156.4	14,233	88.2	10,924	
KUVN-DT D33 DT APP	124.3	7,222		72.1	4,502
KMSS-TV D34 DT LIC	52.3	568	52.3	568	52.3	568
KEYE-TV D34 DT BL	117.0	570	108.9	534	108.9	534
KIAH D34 DT BL	4.1	36	0.0	0	0.0	0
KDFW D35 DT LIC	208.9	8,737	140.6	5,428	152.7	6,017

Interference to proposal, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KUVN-DT	D33	DT	APP	GARLAND, TX	KUVN 900 KW	
Undesireds:	KDAF	D32	DT	LIC	DALLAS, TX	BLCDT20010606ABJ	5.2 km
	KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL	332.5
	KVUE	D33	DT	LIC	AUSTIN, TX	BLCDT20050624AAI	264.1
	KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	364.0
	KSTR-DT	D34	DT	BL	IRVING, TX	DTVBL60534	5.2

Service area		Terrain-limited		IX-free		Percent IX	
35978.6	6,639,154	35701.8	6,637,381	34976.0	6,627,734	2.03	0.15

Undesired	Total IX	Unique IX	Prcnt Unique IX	
KDAF D32 DT LIC	189.9	2,936	16.2	375	0.05	0.01
KOCB D33 DT LIC	132.0	744	124.0	741	0.35	0.01
KVUE D33 DT LIC	355.8	3,763	323.5	3,598	0.91	0.05
KSTR-DT D34 DT BL	246.1	4,778	80.5	2,369	0.23	0.04