tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: LakeC22d15kwF, Model: Longley-Rice
Start: 2021.08.05 13:46:05

Study created: 2021.08.05 13:46:04

Study build station data: LMS TV 2021-08-05

    Proposal: W39DK-D D22 LD APP IOWA, LA
 Facility ID: 185546
Station data: User record
   Record ID: 288
     Country: U.S.

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

Individual records excluded:
20090824AGJ   DK02QB D21 LD APP ALEXANDRIA, LA BDISDTL20090824AGJ

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WBRL-CD	D21	DC	LIC	BATON ROUGE, LA	BLDTA20100908AAP	176.0 km
No	K21OM-D	D21	LD	LIC	LAFAYETTE, LA	BLANK0000105971	72.8
No	K21OB-D	D21+	LD	LIC	LAKE CHARLES, LA	BLANK0000147610	13.2
No	KZJL	D21	DT	LIC	HOUSTON, TX	BLANK0000072328	245.2
Yes	DK22GT	N22z	TX	APP	LAKE CHARLES, LA	BLTTL20060103ABZ	41.6
Yes	K22NI-D	D22	LD	LIC	LEESVILLE, LA	BLANK0000064144	104.5
No	KWBJ-CD	D22	DC	LIC	MORGAN CITY, LA	BLDTA20090512AAZ	194.3
No	WTNO-LP	D22	DC	LIC	NEW ORLEANS, LA	BLANK0000001586	287.4
No	WTNO-LP	D22	DC	CP	NEW ORLEANS, LA	BLANK0000127566	287.4
No	KDCG-CD	D22	DC	CP	OPELOUSAS, LA	BLANK0000136173	110.2
No	KDCG-CD	D22	DC	LIC	OPELOUSAS, LA	BLDTA20140813AAQ	110.2
No	K22IB-D	D22	LD	CP	VIDALIA, LA	BDCCDTT20061024AFE	214.1
No	KMCT-TV	D22	DT	LIC	WEST MONROE, LA	BLANK0000063151	261.7
No	W22EO-D	D22	LD	CP	GREENVILLE, MS	BNPDTL20101018ACV	399.1
No	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLANK0000068599	389.5

No	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	450.3
No	K22JW-D	D22	LD	LIC	BAY CITY, TX	BLDTL20140225AAS	332.5
No	KUMY-LD	D22	LD	CP	BEAUMONT, TX	BLANK0000151634	98.1
No	KUMY-LD	D22	LD	LIC	BEAUMONT, TX	BLDTL20120308ACH	98.1
No	K22OK-D	D22	LD	LIC	CALVERT, TX	BLANK0000121629	339.9
Yes	KTMD	D22	DT	LIC	GALVESTON, TX	BLANK0000073375	244.9
Yes	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDT20120516ABW	286.9
Yes	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	79.4
Yes	W23EC-D	D23	LD	CP	LAKE CHARLES, LA	BNPDTL20100407ABO	14.3
No	KSLA	D23	DT	LIC	SHREVEPORT, LA	BLANK0000120697	275.4
No	KUMJ-LD	D23	LD	CP	BEAUMONT, TX	BLANK0000007969	90.7
No	KLTJ	D23	DT	LIC	GALVESTON, TX	BLEDT20110127ACD	244.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D22
       Mask: Full Service
   Latitude:  30 17 54.90 N (NAD83)
  Longitude:  93  6 37.10 W
Height AMSL: 90.0 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
```

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	83.5 m	42.2 km
45.0	15.0	84.9	42.4
90.0	15.0	83.6	42.2
135.0	15.0	84.3	42.3
180.0	15.0	85.3	42.5
225.0	15.0	86.7	42.7
270.0	15.0	86.9	42.7

315.0 15.0 82.2 42.0

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 85 m

Distance to Canadian border: 1567.8 km

Distance to Mexican border: 608.7 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 236.8 degrees Distance: 562.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 318.1 degrees Distance: 1546.9 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 BLTTL20060103ABZ APP scenario 1
**MX: 99.78% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	DK22GT	N22z	TX	APP	LAKE CHARLES, LA	BLTTL20060103ABZ	
Undesireds:	W39DK-D	D22	LD	APP	IOWA, LA		41.6 km
	KDCG-CD	D22	DC	CP	OPELOUSAS, LA	BLANK0000136173	147.8
	KUMY-LD	D22	LD	CP	BEAUMONT, TX	BLANK0000151634	60.0
	KTMD	D22	DT	LIC	GALVESTON, TX	BLANK0000073375	204.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
636.8	14,222	636.8	14,222	559.6	10,552	23.1	23	95.88	99.78

Undesired	Total IX		Unique IX, before		Unique IX, after	
W39DK-D D22 LD APP	613.7	14,199			536.5	10,529
KUMY-LD D22 LD CP	77.2	3,670	70.2	3,670	0.0	0
KTMD D22 DT LIC	7.0	0	0.0	0	0.0	0

Interference to BLTTL20060103ABZ APP scenario 2
**MX: 99.84% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	DK22GT	N22z	TX	APP	LAKE CHARLES, LA	BLTTL20060103ABZ	
Undesireds:	W39DK-D	D22	LD	APP	IOWA, LA		41.6 km
	KDCG-CD	D22	DC	CP	OPELOUSAS, LA	BLANK0000136173	147.8
	KTMD	D22	DT	LIC	GALVESTON, TX	BLANK0000073375	204.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
636.8	14,222	636.8	14,222	629.7	14,222	23.1	23	96.34	99.84

Undesired	Total IX		Unique IX, before		Unique IX, after	
W39DK-D D22 LD APP	613.7	14,199			606.7	14,199
KTMD D22 DT LIC	7.0	0	7.0	0	0.0	0

Interference to BLANK0000064144 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K22NI-D	D22	LD	LIC	LEESVILLE, LA	BLANK0000064144	
Undesireds:	W39DK-D	D22	LD	APP	IOWA, LA		104.5 km
	WTNO-LP	D22	DC	LIC	NEW ORLEANS, LA	BLANK0000001586	324.3
	KDCG-CD	D22	DC	CP	OPELOUSAS, LA	BLANK0000136173	154.4
	KUMY-LD	D22	LD	CP	BEAUMONT, TX	BLANK0000151634	154.4
	KTMD	D22	DT	LIC	GALVESTON, TX	BLANK0000073375	288.5
	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDT20120516ABW	220.0
	KNCD-LD	D23z	LD	APP	NACOGDOCHES, TX	BLANK0000010678	141.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
7051.1	88,168	7031.8	87,993	6957.7	86,642	6944.4	86,559	0.19	0.10

Undesired		Total IX	Unique IX, before		Unique IX, after	
W39DK-D D22 LD APP	16.3	83			13.3	83
KDCG-CD D22 DC CP	1.0	0	0.0	0	0.0	0
KTMD D22 DT LIC	2.0	0	0.0	0	0.0	0
KETK-TV D22 DT LIC	73.1	1,351	72.0	1,351	71.0	1,351

Interference to BLANK0000064144 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K22NI-D	D22	LD	LIC	LEESVILLE, LA	BLANK0000064144	
Undesireds:	W39DK-D	D22	LD	APP	IOWA, LA		104.5 km
	WTNO-LP	D22	DC	LIC	NEW ORLEANS, LA	BLANK0000001586	324.3
	KDCG-CD	D22	DC	LIC	OPELOUSAS, LA	BLDTA20140813AAQ	154.4
	KUMY-LD	D22	LD	CP	BEAUMONT, TX	BLANK0000151634	154.4
	KTMD	D22	DT	LIC	GALVESTON, TX	BLANK0000073375	288.5
	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDT20120516ABW	220.0
	KNCD-LD	D23z	LD	APP	NACOGDOCHES, TX	BLANK0000010678	141.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
7051.1	88,168	7031.8	87,993	6957.7	86,642	6944.4	86,559	0.19	0.10

Undesired		Total IX	Unique IX, before		Unique IX, after	
W39DK-D D22 LD APP	16.3	83			13.3	83
KDCG-CD D22 DC LIC	1.0	0	0.0	0	0.0	0
KTMD D22 DT LIC	2.0	0	0.0	0	0.0	0
KETK-TV D22 DT LIC	73.1	1,351	72.0	1,351	71.0	1,351

Interference to BLANK0000073375 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTMD	D22	DT	LIC	GALVESTON, TX	BLANK0000073375	

Undesireds:	W39DK-D	D22	LD	APP	IOWA, LA		244.9 km
	KZJL	D21	DT	LIC	HOUSTON, TX	BLANK0000072328	1.0
	KDCG-CD	D22	DC	CP	OPELOUSAS, LA	BLANK0000136173	352.2
	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	236.1
	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDT20120516ABW	277.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
43478.4	6,096,213	43413.4	6,095,895	42181.6	6,079,750	42181.6	6,079,750	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
W39DK-D D22 LD APP	2.0	0			0.0	0
KZJL D21 DT LIC	22.1	174	17.1	153	17.1	153
KLRU D22 DT LIC	824.5	11,180	536.7	8,467	536.7	8,467
KETK-TV D22 DT LIC	673.0	7,504	390.3	4,812	390.3	4,812

Interference to BMLCDT20120516ABW LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDT20120516ABW	
Undesireds:	W39DK-D	D22	LD	APP	IOWA, LA		286.9 km
	KDTX-TV	D21	DT	LIC	DALLAS, TX	BLANK0000075181	166.2
	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLANK0000149936	401.4
	KDCG-CD	D22	DC	CP	OPELOUSAS, LA	BLANK0000136173	371.5
	KLRU	D22	DT	LIC	AUSTIN, TX	BLEDT20040305ACK	305.6
	KTMD	D22	DT	LIC	GALVESTON, TX	BLANK0000073375	277.4
	KSLA	D23	DT	LIC	SHREVEPORT, LA	BLANK0000120697	146.5
	KTXD-TV	D23	DT	LIC	GREENVILLE, TX	BLANK0000080284	166.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36492.0	1,031,357	36328.9	1,030,318	34655.4	1,004,918	34652.3	1,004,918	0.01	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
W39DK-D D22 LD APP	9.1	53			3.0	0
KDTX-TV D21 DT LIC	35.1	505	0.0	0	0.0	0
KATV D22 DT LIC	24.0	205	7.0	43	7.0	43

KLRU D22 DT LIC	114.9	481	20.3	0	20.3	0
KTMD D22 DT LIC	814.6	8,687	716.9	8,181	710.9	8,128
KSLA D23 DT LIC	715.2	14,812	695.2	14,625	695.2	14,625
KTXD-TV D23 DT LIC	119.5	1,883	84.3	1,378	84.3	1,378

Interference to BLEDT20130820AAH LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	
Undesireds:	W39DK-D	D22	LD	APP	IOWA, LA		79.4 km
	KDCG-CD	D22	DC	CP	OPELOUSAS, LA	BLANK0000136173	30.8
	WGMB-TV	D24	DT	LIC	BATON ROUGE, LA	BLANK0000113571	96.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24908.8	747,614	24908.8	747,614	24833.8	747,229	24823.8	746,336	0.04	0.12

Undesired		Total IX	Unique IX, before		Unique IX, after	
W39DK-D D22 LD APP	10.0	893			10.0	893
KDCG-CD D22 DC CP	2.0	0	2.0	0	2.0	0
WGMB-TV D24 DT LIC	73.0	385	73.0	385	73.0	385

Interference to BLEDT20130820AAH LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	
Undesireds:	W39DK-D	D22	LD	APP	IOWA, LA		79.4 km
	KDCG-CD	D22	DC	LIC	OPELOUSAS, LA	BLDTA20140813AAQ	30.8
	WGMB-TV	D24	DT	LIC	BATON ROUGE, LA	BLANK0000113571	96.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24908.8	747,614	24908.8	747,614	24830.8	747,229	24820.8	746,336	0.04	0.12

Undesired		Total IX	Unique IX, before		Unique IX, after	
W39DK-D D22 LD APP	10.0	893			10.0	893

KDCG-CD D22 DC LIC	6.0	0	5.0	0	5.0	0	
WGMB-TV D24 DT LIC	73.0	385	72.0	385	72.0	385	

Interference to BNPDTL20100407ABO CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W23EC-D	D23	LD	CP	LAKE CHARLES, LA	BNPDTL20100407ABO	
Undesireds:	W39DK-D	D22	LD	APP	IOWA, LA		14.3 km
	KUMY-LD	D22	LD	CP	BEAUMONT, TX	BLANK0000151634	83.9
	KLPB-TV	D23	DT	LIC	LAFAYETTE, LA	BLEDT20130820AAH	93.1
	KNCD-LD	D23z	LD	APP	NACOGDOCHES, TX	BLANK0000010678	182.9
	KFAM-CD	D24	DC	LIC	LAKE CHARLES, LA	BLANK0000063954	6.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1049.4	167,208	1049.4	167,208	867.2	157,719	867.2	157,719	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W39DK-D D22 LD APP	17.0	1,247				0.0	0
KLPB-TV D23 DT LIC	152.1	5,543		150.1	5,095	133.1	3,848
KFAM-CD D24 DC LIC	32.1	4,394		30.1	3,946	30.1	3,946

Interference to proposal scenario 1
**MX: 5.55% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W39DK-D	D22	LD	APP	IOWA, LA		
Undesireds:	DK22GT	N22z	TX	APP	LAKE CHARLES, LA	BLTTL20060103ABZ	41.6 km
	K22NI-D	D22	LD	LIC	LEESVILLE, LA	BLANK0000064144	104.5
	WTNO-LP	D22	DC	LIC	NEW ORLEANS, LA	BLANK0000001586	287.4
	KDCG-CD	D22	DC	CP	OPELOUSAS, LA	BLANK0000136173	110.2
	KUMY-LD	D22	LD	CP	BEAUMONT, TX	BLANK0000151634	98.1
	W23EC-D	D23	LD	CP	LAKE CHARLES, LA	BNPDTL20100407ABO	14.3

Service area		Terrain-limited		IX-free	Percent IX

Service area		Terrain-limited		IX-free		Percent IX	
5645.0	219,742	5645.0	219,742	4755.1	207,547	15.76	5.55

Undesired	Total IX		Unique IX		Prcnt Unique IX	
DK22GT N22z TX APP	705.8	10,055	705.8	10,055	12.50	4.58
K22NI-D D22 LD LIC	6.0	91	6.0	91	0.11	0.04
KDCG-CD D22 DC CP	177.1	1,568	177.1	1,568	3.14	0.71
W23EC-D D23 LD CP	1.0	481	1.0	481	0.02	0.22

Interference to proposal scenario 2
**MX: 5.68% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W39DK-D	D22	LD	APP	IOWA, LA		
Undesireds:	DK22GT	N22z	TX	APP	LAKE CHARLES, LA	BLTTL20060103ABZ	41.6 km
	K22NI-D	D22	LD	LIC	LEESVILLE, LA	BLANK0000064144	104.5
	WTNO-LP	D22	DC	LIC	NEW ORLEANS, LA	BLANK0000001586	287.4
	KDCG-CD	D22	DC	LIC	OPELOUSAS, LA	BLDTA20140813AAQ	110.2
	KUMY-LD	D22	LD	CP	BEAUMONT, TX	BLANK0000151634	98.1
	W23EC-D	D23	LD	CP	LAKE CHARLES, LA	BNPDTL20100407ABO	14.3

Service area		Terrain-limited		IX-free		Percent IX	
5645.0	219,742	5645.0	219,742	4718.1	207,257	16.42	5.68

Undesired	Total IX		Unique IX		Prcnt Unique IX	
DK22GT N22z TX APP	705.8	10,055	705.8	10,055	12.50	4.58
K22NI-D D22 LD LIC	6.0	91	6.0	91	0.11	0.04
KDCG-CD D22 DC LIC	214.1	1,858	214.1	1,858	3.79	0.85
W23EC-D D23 LD CP	1.0	481	1.0	481	0.02	0.22