

K29HW-D DISPLACEMENT APPLICATION FOR CH 32 7.5 kW OMNI
AUSTIN, TEXAS
ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS
MAY 2018

The proposed facility qualifies for displacement as described in FCC PN DA 18-124 released February 9, 2018. K29HW-D is a licensed LPTV DTV facility as authorized in file number BLDTL-20110607AAO. FCC TVStudy software v2.2.5 was utilized to determine the interference levels associated with the K29HW-D licensed facility, caused interference, is pasted in below:

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%

**IX check failure to BLANK0000027655 CP scenario 1, 13.53% interference caused
KHPX-CD D29 DC CP GEORGETOWN, TX BLANK0000027655

**IX check failure to BLANK0000034818 CP scenario 1, 3.51% interference caused
KENS D29 DT CP SAN ANTONIO, TX BLANK0000034818

The K29HW-D facility is clearly displaced as it is associated with caused interference in excess of 0.5% to the construction permit of Class A station KHPX-CD CH 29 and full-service station KENS CH 29.

The proposed antenna system consists of a PSI model PSILP8OI-32-EP, elliptically polarized, with 0.5 degree of beam tilt. The maximum relative field in the elevation pattern across the depression angle range of 20 to 90 degrees is less than 0.25 with a radiation center 97.2 meters above ground. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01, a value F of 0.25 has been used to calculate the power density 2 meters above ground. The maximum power density is 2.24 uw/cm squared calculated for an ERP OF

7,500 watts H. polarization and 2.25 kW V. polarization. This value is 0.58% of the Public Exposure MPE per section 1.1310. Based on this analysis it is believed that the proposed facility is in compliance with OET-65 Guidelines.

The applicant will reduce power or cease transmission as required to meet FCC OET-65 Guidelines.

The tower is existing along with the transmitter building, access road and power.

Below is a copy of the TVStudy interference analysis for CH 32 based on the facilities described above with the antenna orientation of 0 degrees true. As can be seen at the conclusion of the report there is no ISIX caused interference. It is believed that the proposed facility provides full protection to other television facilities.

TVSTUDY v2.2.5 REPORT

Study created: 2018.05.15 16:08:51

Study build station data: LMS TV 2018-05-14

Proposal: K29HW-D D32 LD LIC AUSTIN, TX
File number: BLDTL20110607AAO
Facility ID: 167743
Station data: User record
Record ID: 357
Country: U.S.

Search options:
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K17GZ	N17z	TX	LIC	HARPER, TX	BLTTTL20070507AEW	142.5 km
No	KBVO-CD	D31	DC	LIC	AUSTIN, TX	BLANK0000001127	7.3
No	KUBE-TV	D31	DT	CP	BAYTOWN, TX	BLANK0000034465	228.9
No	KHXL-LP	D31-	LD	CP	HUNTSVILLE, TX	BLANK0000005630	195.0

No	KAZD	D31	DT	CP	LAKE DALLAS, TX	BLANK0000034935	266.1
No	KVDF-CD	D31	DC	LIC	SAN ANTONIO, TX	BLANK0000001489	119.5
No	KPXJ	D32	DT	CP	MINDEN, LA	BLANK0000028329	448.6
No	KPXJ	D32	DT	APP	MINDEN, LA	BLANK0000035670	448.6
No	KAOB-LD	D32	LD	APP	BEAUMONT, TX	BLANK0000051878	357.0
Yes	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	230.2
No	K29IP-D	D32	LD	APP	CORPUS CHRISTI, TX	BLANK0000053769	278.8
No	KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	261.5
Yes	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	134.1
No	KLNM-LD	D32	LD	APP	LUFKIN, TX	BLANK0000053922	315.4
No	K32KE-D	D32	LD	CP	SWEETWATER, TX	BNPDTL20100310ACA	345.6
No	K32LC-D	D32	LD	CP	VICTORIA, TX	BNPDTL20100510AKI	159.1
No	K32KT-D	D32	LD	LIC	WICHITA FALLS, TX	BLANK0000001482	408.8
No	K32KD-D	D32	LD	CP	WOODVILLE, TX	BNPDTL20100310AAS	324.9
No	KVUE	D33	DT	LIC	AUSTIN, TX	BLCDDT20050624AAI	7.3
No	KTBU	D33	DT	CP	CONROE, TX	BLANK0000034102	229.3
No	KUVN-DT	D33	DT	CP	GARLAND, TX	BLANK0000034451	266.2
No	KSSJ-LD	D33	LD	APP	SAN ANTONIO, TX	BLANK0000051645	119.5
No	KQZY-LP	D33	LD	LIC	VICTORIA, TX	BLANK0000001557	170.8
No	K34FM-D	N34-	TX	LIC	AUSTIN, TX	BLTT20061002BGB	7.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D32
Mask: Full Service
Latitude: 30 17 11.10 N (NAD83)
Longitude: 97 44 21.80 W
Height AMSL: 277.6 m
HAAT: 0.0 m
Peak ERP: 7.50 kW
Antenna: PSI-PSILP80I-32-EP 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.50

50.5 dBu contour:

Azimuth	ERP	HAAT	Distance
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0.0 deg	7.50 kW	45.5 m	31.0 km
45.0	7.50	81.4	37.5
90.0	7.50	112.6	41.2
135.0	7.50	137.2	42.9
180.0	7.50	104.3	40.3
225.0	7.50	71.2	36.0
270.0	7.50	45.1	30.9
315.0	7.50	60.5	34.3

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 82 m

Distance to Canadian border: 1836.9 km

Distance to Mexican border: 312.5 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 182.6 degrees Distance: 316.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 330.2 degrees Distance: 1285.8 km

Study cell size: 0.50 km
Profile point spacing: 0.50 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

----- Below is IX received by proposal BLDTL20110607AAO -----

Proposal receives 33.25% interference from scenario 1
No IX check failures found.

TVSTUDY v2.2.5 ISIX

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BLDTL20110607AAO, Model: Longley-Rice

Start: 2018.05.15 16:08:51

Study created: 2018.05.15 16:08:51

Study build station data: LMS TV 2018-05-14

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IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K17GZ	N17z	TX	LIC	HARPER, TX	BLTTL20070507AEW	142.5 km
No	KBVO-CD	D31	DC	LIC	AUSTIN, TX	BLANK0000001127	7.3
No	KUBE-TV	D31	DT	CP	BAYTOWN, TX	BLANK0000034465	228.9
No	KHXL-LP	D31-	LD	CP	HUNTSVILLE, TX	BLANK0000005630	195.0
No	KAZD	D31	DT	CP	LAKE DALLAS, TX	BLANK0000034935	266.1
No	KVDF-CD	D31	DC	LIC	SAN ANTONIO, TX	BLANK0000001489	119.5
No	KPXJ	D32	DT	CP	MINDEN, LA	BLANK0000028329	448.6
No	KPXJ	D32	DT	APP	MINDEN, LA	BLANK0000035670	448.6
No	KAOB-LD	D32	LD	APP	BEAUMONT, TX	BLANK0000051878	357.0
Yes	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	230.2
No	K29IP-D	D32	LD	APP	CORPUS CHRISTI, TX	BLANK0000053769	278.8
No	KDAF	D32	DT	LIC	DALLAS, TX	BLCDT20010606ABJ	261.5
Yes	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDT20060608ACW	134.1
No	KLNM-LD	D32	LD	APP	LUFKIN, TX	BLANK0000053922	315.4
No	K32KE-D	D32	LD	CP	SWEETWATER, TX	BNPDTL20100310ACA	345.6
No	K32LC-D	D32	LD	CP	VICTORIA, TX	BNPDTL20100510AKI	159.1
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No	KTBU	D33	DT	CP	CONROE, TX	BLANK0000034102	229.3
No	KUVN-DT	D33	DT	CP	GARLAND, TX	BLANK0000034451	266.2

No	KSSJ-LD	D33	LD	APP	SAN ANTONIO, TX	BLANK0000051645	119.5
No	KQZY-LP	D33	LD	LIC	VICTORIA, TX	BLANK0000001557	170.8
No	K34FM-D	N34-	TX	LIC	AUSTIN, TX	BLTT20061002BGB	7.2

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Longitude: 97 44 21.80 W
Height AMSL: 277.6 m
HAAT: 0.0 m
Peak ERP: 7.50 kW
Antenna: PSI-PSILP8AOC 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.50

50.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.50 kW	45.5 m	31.0 km
45.0	7.50	81.4	37.5
90.0	7.50	112.6	41.2
135.0	7.50	137.2	42.9
180.0	7.50	104.3	40.3
225.0	7.50	71.2	36.0
270.0	7.50	45.1	30.9
315.0	7.50	60.5	34.3

Database HAAT does not agree with computed HAAT

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Conditions at Table Mountain receiving zone:

Bearing: 330.2 degrees Distance: 1285.8 km

Study cell size: 0.50 km
Profile point spacing: 0.50 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000035588 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	CP	BAYTOWN, TX	BLANK0000034465	1.4
	KPXJ	D32	DT	CP	MINDEN, LA	BLANK0000028329	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDT20060608ACW	327.8
	KTBU	D33	DT	CP	CONROE, TX	BLANK0000034102	0.8

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37901.1	6,062,127	37838.8	6,061,819	37635.4	6,053,690	37634.9 6,053,688	0.00 0.00

Undesired	Total IX		Unique IX, before		Unique IX, after		
K29HW-D D32 LD LIC	3.8	10			0.5	2	
KUBE-TV D31 DT CP	105.3	5,708	33.6	1,225	33.6	1,225	
KPXJ D32 DT CP	9.7	242	7.5	242	7.5	242	
KDAF D32 DT LIC	9.7	0	6.7	0	5.5	0	
KMYS D32 DT LIC	3.5	22	2.8	22	1.5	14	
KTBU D33 DT CP	149.8	6,640	78.2	2,157	78.2	2,157	

Interference to BLANK0000035588 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	CP	BAYTOWN, TX	BLANK0000034465	1.4
	KPXJ	D32	DT	CP	MINDEN, LA	BLANK0000028329	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDT20060608ACW	327.8

KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	0.8
Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
37901.1 6,062,127	37838.8 6,061,819	37642.4 6,054,931	37641.9 6,054,929	0.00 0.00		
Undesired	Total IX	Unique IX, before	Unique IX, after			
K29HW-D D32 LD LIC	3.8 10		0.5 2			
KUBE-TV D31 DT CP	105.3 5,708	27.8 1,097	27.8 1,097			
KPXJ D32 DT CP	9.7 242	7.5 242	7.5 242			
KDAF D32 DT LIC	9.7 0	6.7 0	5.5 0			
KMYS D32 DT LIC	3.5 22	2.8 22	1.5 14			
KTBU D33 DT BL	148.6 5,527	71.2 916	71.2 916			

Interference to BLANK0000035588 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	BL	BAYTOWN, TX	DTVBL70492	1.4
	KPXJ	D32	DT	CP	MINDEN, LA	BLANK0000028329	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDT20060608ACW	327.8
	KTBU	D33	DT	CP	CONROE, TX	BLANK0000034102	0.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
37901.1 6,062,127	37838.8 6,061,819	37648.0 6,053,949	37647.5 6,053,947	0.00 0.00		
Undesired	Total IX	Unique IX, before	Unique IX, after			
K29HW-D D32 LD LIC	3.8 10		0.5 2			
KUBE-TV D31 DT BL	64.4 3,047	21.0 966	21.0 966			
KPXJ D32 DT CP	9.7 242	7.5 242	7.5 242			
KDAF D32 DT LIC	9.7 0	6.7 0	5.5 0			
KMYS D32 DT LIC	3.5 22	2.8 22	1.5 14			
KTBU D33 DT CP	149.8 6,640	106.5 4,559	106.5 4,559			

Interference to BLANK0000035588 LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	BL	BAYTOWN, TX	DTVBL70492	1.4

KPXJ	D32	DT	CP	MINDEN, LA	BLANK0000028329	377.9
KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	359.3
KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	327.8
KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	0.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37901.1	6,062,127	37838.8	6,061,819	37651.7	6,055,117	37651.2	6,055,115	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
K29HW-D	D32 LD LIC	3.8	10		0.5	2
KUBE-TV	D31 DT BL	64.4	3,047	18.5	911	18.5
KPXJ	D32 DT CP	9.7	242	7.5	242	7.5
KDAF	D32 DT LIC	9.7	0	6.7	0	5.5
KMYS	D32 DT LIC	3.5	22	2.8	22	1.5
KTBU	D33 DT BL	148.6	5,527	102.7	3,391	102.7
						3,391

Interference to BLANK0000035588 LIC scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	CP	BAYTOWN, TX	BLANK0000034465	1.4
	KPXJ	D32	DT	APP	MINDEN, LA	BLANK0000035670	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	327.8
	KTBU	D33	DT	CP	CONROE, TX	BLANK0000034102	0.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37901.1	6,062,127	37838.8	6,061,819	37626.9	6,053,684	37626.4	6,053,682	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
K29HW-D	D32 LD LIC	3.8	10		0.5	2
KUBE-TV	D31 DT CP	105.3	5,708	33.3	1,225	33.3
KPXJ	D32 DT APP	18.7	248	16.0	248	16.0
KDAF	D32 DT LIC	9.7	0	6.5	0	5.2
KMYS	D32 DT LIC	3.5	22	2.8	22	1.5
KTBU	D33 DT CP	149.8	6,640	78.2	2,157	78.2
						2,157

Interference to BLANK0000035588 LIC scenario 6

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	

Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	CP	BAYTOWN, TX	BLANK0000034465	1.4
	KPXJ	D32	DT	APP	MINDEN, LA	BLANK0000035670	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	327.8
	KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	0.8

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
37901.1	6,062,127	37838.8	6,061,819	37633.9	6,054,925	37633.4	6,054,923	0.00	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after
K29HW-D	D32	LD	LIC	3.8	10	0.5	2
KUBE-TV	D31	DT	CP	105.3	5,708	27.6	1,097
KPXJ	D32	DT	APP	18.7	248	16.0	248
KDAF	D32	DT	LIC	9.7	0	6.5	0
KMYS	D32	DT	LIC	3.5	22	2.8	14
KTBU	D33	DT	BL	148.6	5,527	71.2	916

Interference to BLANK0000035588 LIC scenario 7

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	CP	BAYTOWN, TX	BLANK0000034465	1.4
	KPXJ	D32	DT	BL	MINDEN, LA	DTVBL81507	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	327.8
	KTBU	D33	DT	CP	CONROE, TX	BLANK0000034102	0.8

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
37901.1	6,062,127	37838.8	6,061,819	37632.4	6,053,684	37631.9	6,053,682	0.00	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after
K29HW-D	D32	LD	LIC	3.8	10	0.5	2
KUBE-TV	D31	DT	CP	105.3	5,708	33.6	1,225
KPXJ	D32	DT	BL	13.0	248	10.5	248
KDAF	D32	DT	LIC	9.7	0	6.5	0
KMYS	D32	DT	LIC	3.5	22	2.8	14
KTBU	D33	DT	CP	149.8	6,640	78.2	2,157

Interference to BLANK0000035588 LIC scenario 8

Desired:	Call KPXB-TV	Chan D32	Svc DT	Status LIC	City, State CONROE, TX	File Number BLANK0000035588	Distance
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	CP	BAYTOWN, TX	BLANK0000034465	1.4
	KPXJ	D32	DT	BL	MINDEN, LA	DTVBL81507	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDT20060608ACW	327.8
	KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	0.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37901.1	6,062,127	37838.8	6,061,819	37639.4	6,054,925	37638.9 6,054,923	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K29HW-D	D32 LD LIC	3.8	10			0.5 2	
KUBE-TV	D31 DT CP	105.3	5,708	27.8	1,097	27.8 1,097	
KPXJ	D32 DT BL	13.0	248	10.5	248	10.5 248	
KDAF	D32 DT LIC	9.7	0	6.5	0	5.2 0	
KMYS	D32 DT LIC	3.5	22	2.8	22	1.5 14	
KTBU	D33 DT BL	148.6	5,527	71.2	916	71.2 916	

Interference to BLANK0000035588 LIC scenario 9

Desired:	Call KPXB-TV	Chan D32	Svc DT	Status LIC	City, State CONROE, TX	File Number BLANK0000035588	Distance
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	BL	BAYTOWN, TX	DTVBL70492	1.4
	KPXJ	D32	DT	APP	MINDEN, LA	BLANK0000035670	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDT20060608ACW	327.8
	KTBU	D33	DT	CP	CONROE, TX	BLANK0000034102	0.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37901.1	6,062,127	37838.8	6,061,819	37639.2	6,053,943	37638.7 6,053,941	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K29HW-D	D32 LD LIC	3.8	10			0.5 2	
KUBE-TV	D31 DT BL	64.4	3,047	21.0	966	21.0 966	
KPXJ	D32 DT APP	18.7	248	16.2	248	16.2 248	
KDAF	D32 DT LIC	9.7	0	6.5	0	5.2 0	
KMYS	D32 DT LIC	3.5	22	2.8	22	1.5 14	
KTBU	D33 DT CP	149.8	6,640	106.5	4,559	106.5 4,559	

Interference to BLANK0000035588 LIC scenario 10

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	BL	BAYTOWN, TX	DTVBL70492	1.4
	KPXJ	D32	DT	APP	MINDEN, LA	BLANK0000035670	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	327.8
	KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	0.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37901.1 6,062,127	37838.8 6,061,819	37642.9 6,055,111	37642.4 6,055,109	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K29HW-D D32 LD LIC	3.8 10	0.5 2	
KUBE-TV D31 DT BL	64.4 3,047	18.5 911	18.5 911
KPXJ D32 DT APP	18.7 248	16.2 248	16.2 248
KDAF D32 DT LIC	9.7 0	6.5 0	5.2 0
KMYS D32 DT LIC	3.5 22	2.8 22	1.5 14
KTBU D33 DT BL	148.6 5,527	102.7 3,391	102.7 3,391

Interference to BLANK0000035588 LIC scenario 11

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	BL	BAYTOWN, TX	DTVBL70492	1.4
	KPXJ	D32	DT	BL	MINDEN, LA	DTVBL81507	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	327.8
	KTBU	D33	DT	CP	CONROE, TX	BLANK0000034102	0.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37901.1 6,062,127	37838.8 6,061,819	37645.0 6,053,943	37644.5 6,053,941	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K29HW-D D32 LD LIC	3.8 10	0.5 2	
KUBE-TV D31 DT BL	64.4 3,047	21.0 966	21.0 966
KPXJ D32 DT BL	13.0 248	10.5 248	10.5 248

KDAF D32 DT LIC	9.7	0	6.5	0	5.2	0
KMYS D32 DT LIC	3.5	22	2.8	22	1.5	14
KTBU D33 DT CP	149.8	6,640	106.5	4,559	106.5	4,559

Interference to BLANK0000035588 LIC scenario 12

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	230.2 km
	KUBE-TV	D31	DT	BL	BAYTOWN, TX	DTVBL70492	1.4
	KPXJ	D32	DT	BL	MINDEN, LA	DTVBL81507	377.9
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	359.3
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	327.8
	KTBU	D33	DT	BL	CONROE, TX	DTVBL28324	0.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37901.1	6,062,127	37838.8	6,061,819	37648.7	6,055,111	37648.2 6,055,109	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K29HW-D D32 LD LIC	3.8	10	0.5 2
KUBE-TV D31 DT BL	64.4	3,047	18.5 911
KPXJ D32 DT BL	13.0	248	10.5 248
KDAF D32 DT LIC	9.7	0	6.5 0
KMYS D32 DT LIC	3.5	22	2.8 14
KTBU D33 DT BL	148.6	5,527	102.7 3,391

Interference to BLCDDT20060608ACW LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	
Undesireds:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	134.1 km
	KBVO-CD	D31	DC	LIC	AUSTIN, TX	BLANK0000001127	131.9
	KVDF-CD	D31	DC	LIC	SAN ANTONIO, TX	BLANK0000001489	41.8
	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	327.8
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	374.3
	KTFV-CD	D32	DC	CP	MCALLEN, TX	BLANK0000034457	399.9
	KVUE	D33	DT	LIC	AUSTIN, TX	BLCDDT20050624AAI	131.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
34827.2	2,274,175	33643.4	2,268,588	33350.7	2,259,600	33306.6 2,258,179	0.13 0.06

Undesired		Total IX	Unique IX, before		Unique IX, after	
K29HW-D D32 LD LIC	219.7	3,814			44.1	1,421
KBVO-CD D31 DC LIC	0.3	0	0.0	0	0.0	0
KVDF-CD D31 DC LIC	9.8	4,277	9.3	4,142	9.3	4,142
KPXB-TV D32 DT LIC	124.4	3,010	66.2	2,163	45.6	1,671
KDAF D32 DT LIC	7.3	2	3.0	0	1.8	0
KVUE D33 DT LIC	213.6	2,548	154.7	1,836	54.4	624


Interference to proposal scenario 1
33.25% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K29HW-D	D32	LD	LIC	AUSTIN, TX	BLDTL20110607AAO	
Undesireds:	KBVO-CD	D31	DC	LIC	AUSTIN, TX	BLANK0000001127	7.3 km
	KPXB-TV	D32	DT	LIC	CONROE, TX	BLANK0000035588	230.2
	KDAF	D32	DT	LIC	DALLAS, TX	BLCDDT20010606ABJ	261.5
	KMYS	D32	DT	LIC	KERRVILLE, TX	BLCDDT20060608ACW	134.1
	KVUE	D33	DT	LIC	AUSTIN, TX	BLCDDT20050624AAI	7.3

	Service area		Terrain-limited		IX-free	Percent IX	
	4334.8	1,418,809	4254.5	1,415,089	1998.9	944,592	53.02 33.25

Undesired		Total IX		Unique IX	Prcnt Unique IX	
KBVO-CD D31 DC LIC	147.5	31,577	4.7	366	0.11	0.03
KPXB-TV D32 DT LIC	37.8	3,157	2.0	113	0.05	0.01
KDAF D32 DT LIC	0.5	198	0.0	0	0.00	0.00
KMYS D32 DT LIC	63.4	2,666	3.3	269	0.08	0.02
KVUE D33 DT LIC	2243.6	469,630	2052.4	437,392	48.24	30.91

The foregoing was prepared on behalf of **THE UNIVERSITY OF TEXAS AT AUSTIN** by Clarence M. Beverage of *Communications Technologies, Inc.*, Marlton, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements she believes them to be true and correct.

A handwritten signature in black ink, appearing to read "Clarence M. Beverage".

Clarence M. Beverage
for Communications Technologies, Inc.
Marlton, New Jersey
May 15, 2018