

ENGINEERING EXHIBIT

Application for Minor Modification of Digital Low Power Television Station Construction Permit

prepared for

Gray Television Licensee, LLC
K28QF-D Sherman, TX
Facility ID 184857
Ch. 28 15 kW Directional

Gray Television Licensee, LLC (“*Gray*”) is the licensee of digital Low Power Television station K31LQ-D, Channel 31, Sherman TX, Facility ID 184857 (file# 0000013869). As a result of the Special Displacement Window,¹ a Construction Permit (“CP” file# 0000054047) authorizes operation on Channel 28 using the new callsign K28QF-D with 15 kW effective radiated power (“ERP”) and a directional antenna. *Gray* proposes herein a minor modification of the displacement CP to utilize a different directional antenna. No change in site location, antenna height, or ERP is proposed.

The authorized K28QF-D site is associated with FCC Antenna Structure Registration number 1011273 and a new side-mounted antenna will be employed. No change to the overall structure height is proposed.

The proposed antenna is a Dielectric model TLP-12H/VP having elliptical polarization (70 percent vertical polarization). The ERP is 15 kW using a “full service” out of channel emission mask. The maximum horizontally polarized ERP is 15 kW and the maximum vertically polarized ERP is 10.5 kW. A plot of the directional antenna’s azimuthal pattern is supplied in Figure 1. Figure 2 depicts the 51 dB μ coverage contour of the proposed facility as well as those of the existing K28QF-D authorization and the licensed Channel 31 facility, demonstrating compliance with §73.3572 for a minor change.

¹ “Incentive Auction Task Force and Media Bureau Announce Post-Incentive Auction Special Displacement Window April 10, 2018, through May 15, 2018, and Make Location and Channel Data Available,” Public Notice, DA 18-124, released February 9, 2018.

Interference study per OET Bulletin 69² shows that the proposal complies with the FCC's interference protection requirements toward all digital television, television translator, LPTV, and Class A stations. The results, summarized in Table 1, show that any new interference does not exceed the FCC's interference limits (0.5 percent to full power and Class A stations, and 2.0 percent to secondary stations) to any facility.

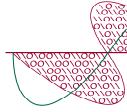
Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposed facility was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number 65. Based on OET-65 equation (10) and 20 percent antenna relative field in downward elevations (pattern data shows 20 percent or less relative field at angles 10 to 90 degrees below the antenna), the calculated power density attributable to the proposed facility at locations near the transmitter site at a height of two meters above ground level is $0.16 \mu\text{W/cm}^2$, which is 0.04 percent of the general population / uncontrolled maximum permissible exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower, or antenna from RF electromagnetic field exposure in excess of FCC guidelines. This exhibit is limited to the evaluation of exposure to RF electromagnetic field. No increase in structure height is proposed.

²FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). This analysis employed the FCC's current "TVStudy" software with the default application processing template settings, 1 km cell size, and 1 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCCs implementation of TVStudy show excellent correlation.

Engineering Exhibit
Gray Television Licensee, LLC (K28QF-D)
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Chesapeake RF Consultants, LLC

Radiofrequency Consulting Engineers
Digital Television and Radio

List of Attachments

- Figure 1 Antenna Azimuthal Pattern
Figure 2 Coverage Contour Comparison
Table 1 TVStudy Analysis of Proposal
Form 2100 Saved Version of Engineering Sections from FCC Form at Time of Upload

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E. May 17, 2021
207 Old Dominion Road Yorktown, VA 23692 703-650-9600

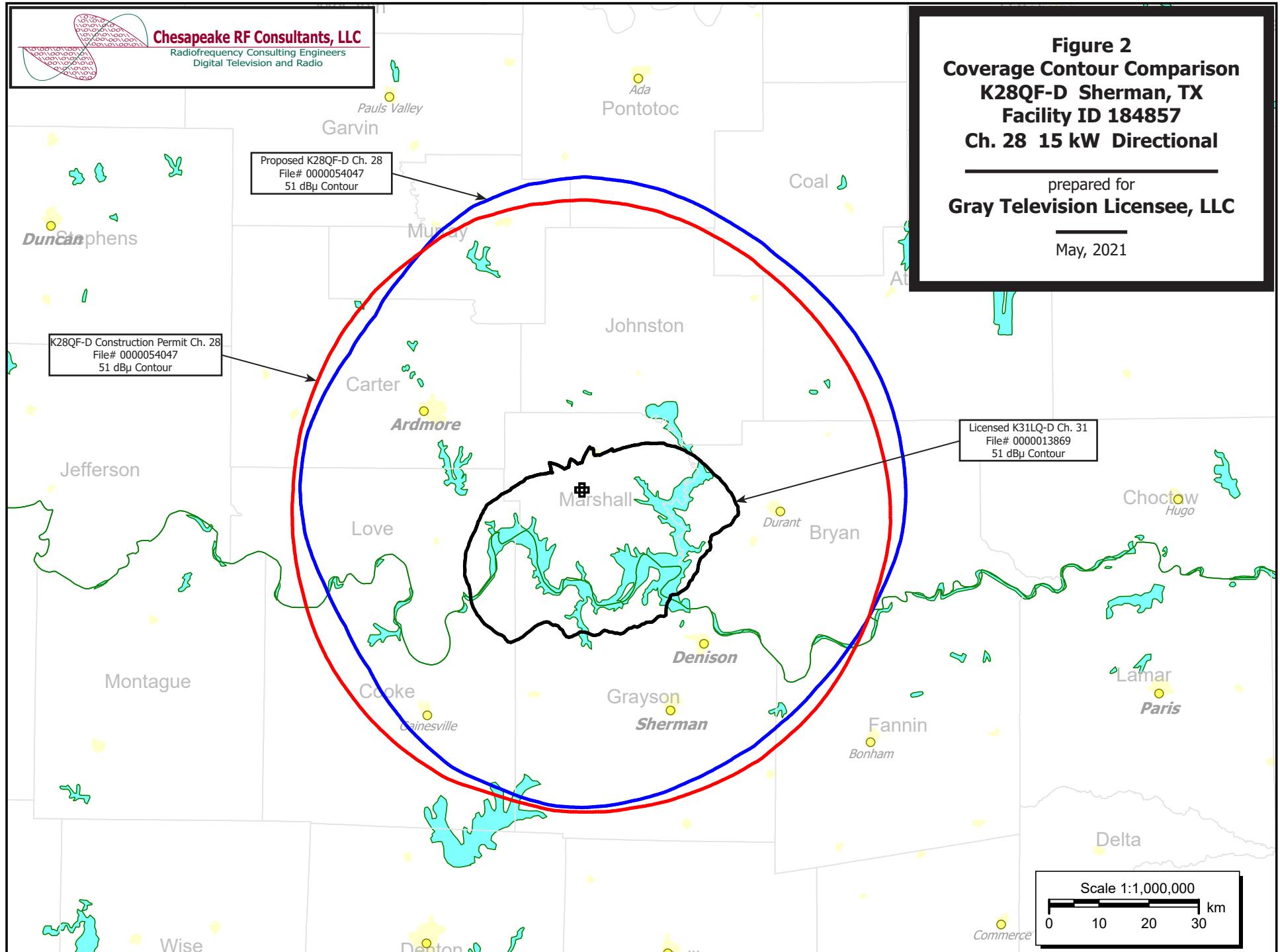


Table 1 K28QF-D TVStudy Analysis of Proposal
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tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K31LQ-D Ch28_TLP-H, Model: Longley-Rice
Start: 2021.05.17 15:04:30

Study created: 2021.05.17 15:04:30

Study build station data: LMS TV 2021-05-14

Proposal: K31LQ-D D28 LD APP SHERMAN, TX
File number: K31LQ-D Ch28_TLP-H
Facility ID: 184857
Station data: User record
Record ID: 3634
Country: U.S.

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

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	K46AI-D	D27	LD	LIC	DURANT, OK	BLANK0000063814	37.5 km
No	KFOR-TV	D27	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121786	181.9
No	KFOR-TV	D27	DT	CP	OKLAHOMA CITY, OK	BLANK0000127588	181.9
Yes	KDFI	D27	DT	LIC	DALLAS, TX	BLANK0000074883	161.7
No	K28NT-D	D28z	LD	LIC	BENTONVILLE & ROGERS, AR	BLANK0000059138	341.8
No	KARZ-TV	D28	DT	LIC	LITTLE ROCK, AR	BLANK0000074890	404.1
No	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000127609	404.1
No	KWKD-LP	D28	LD	CP	WICHITA, KS	BDFCDTL20101025AAU	423.8
Yes	KTBS-TV	D28	DT	LIC	SHREVEPORT, LA	BLANK0000053971	305.3
No	K28JX-D	D28	LD	LIC	ALVA - CHEROKEE, OK	BLDTT20101007ABK	344.9
No	DDK28DJ-D	D28	LD	LIC	BROKEN BOW, OK	BLDTL20120314ABZ	188.1
No	K28NU-D	D28	LD	LIC	BUFFALO, OK	BLANK0000055257	399.6
No	K28LR-D	D28	LD	CP	ERICK, OK	BNPDTL20100406ACK	311.1
Yes	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	209.4
No	K28NV-D	D28	LD	LIC	PONCA CITY, OK	BLANK0000055256	301.6
No	K23IY-D	D28	LD	LIC	Weatherford, OK	BLANK0000063620	239.6
No	K28QN-D	D28	LD	CP	COLLEGE STATION, TX	BLANK0000116857	377.7
No	K25FW-D	D28	LD	APP	CORSICANA, TX	BLANK0000126784	190.3
Yes	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	139.2
Yes	KLEG-CD	D28	DC	CP	DALLAS, TX	BLANK0000143076	139.2
No	KETX-LP	D28	LD	CP	LIVINGSTON, TX	BDISDTL20090814AAJ	406.3
Yes	KCEB	D28	DT	LIC	LONGVIEW, TX	BLANK0000080719	305.3
No	K28OF-D	D28	LD	LIC	MEMPHIS, TX	BLANK0000076195	359.1
No	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	306.1
Yes	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	162.9
No	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	180.9
No	KDTN	D29	DT	LIC	DENTON, TX	BLANK0000080184	161.2
No	KPTD-LP	D29	LD	CP	PARIS, TX	BLANK0000059305	161.2
No	KEGG-LP	N35+	TX	LIC	MCALESTER, OK	BLTT20051017ABG	139.2
No	KJBO-LP	N35	TX	LIC	WICHITA FALLS, TX	BLTTL19900423JN	161.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28
Mask: Full Service
Latitude: 34 1 58.00 N (NAD83)
Longitude: 96 48 1.00 W
Height AMSL: 728.4 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: DIE TLP-H 90.0 deg
Elev Pattrn: Generic
Elec Tilt: 1.00

50.1 dBu contour:

Table 1 K28QF-D TVStudy Analysis of Proposal
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Azimuth	ERP	HAAT	Distance
0.0 deg	12.6 kW	476.4 m	63.8 km
45.0	9.52	491.6	62.5
90.0	15.0	512.5	65.9
135.0	8.94	504.6	62.5
180.0	12.4	508.2	64.7
225.0	3.96	517.4	58.0
270.0	4.07	498.1	57.6
315.0	3.96	467.4	56.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 497 m

Distance to Canadian border: 1482.2 km

Distance to Mexican border: 642.4 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 188.3 degrees Distance: 739.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 314.6 degrees Distance: 1006.9 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 BLANK0000063814 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K46AI-D	D27	LD	LIC	DURANT, OK	BLANK0000063814	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	37.5 km
	K19II-D	D26	LD	CP	ARDMORE, OK	BLANK0000072054	37.5
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614	281.0
	KFOR-TV	D27	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121786	201.9
	KDFI	D27	DT	LIC	DALLAS, TX	BLANK0000074883	165.2
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	139.7
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6337.1	148,538	6306.2		147,463	5979.6	127,574	5977.6 127,561
Undesired				Total IX	Unique IX, before	Unique IX, after	
K31LQ-D	D28	LD	APP	21.7	238	2.0	13
K19II-D	D26	LD	CP	28.6	234	5.9	0
KFTA-TV	D27	DT	CP	6.0	19	0.0	0
KFOR-TV	D27	DT	LIC	26.0	151	4.0	0
KDFI	D27	DT	LIC	305.8	19,758	274.0	271.0 19,403

Interference to BLANK0000063814 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K46AI-D	D27	LD	LIC	DURANT, OK	BLANK0000063814	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	37.5 km
	K19II-D	D26	LD	CP	ARDMORE, OK	BLANK0000072054	37.5
	KFTA-TV	D27	DT	LIC	FORT SMITH, AR	BLCDT20090331AEC	281.0
	KFOR-TV	D27	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121786	201.9
	KDFI	D27	DT	LIC	DALLAS, TX	BLANK0000074883	165.2
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	139.7
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6337.1	148,538	6306.2		147,463	5979.6	127,574	5977.6 127,561
Undesired				Total IX	Unique IX, before	Unique IX, after	

Table 1 K28QF-D TVStudy Analysis of Proposal
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K31LQ-D D28 LD APP	21.7	238		2.0	13
K19II-D D26 LD CP	28.6	234	13.8	124	5.9 0
KFTA-TV D27 DT LIC	3.0	12	0.0	0	0.0 0
KFOR-TV D27 DT LIC	26.0	151	5.0	7	4.0 7
KDFI D27 DT LIC	305.8	19,758	275.0	19,504	272.0 19,403

Interference to BLANK0000063814 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K46AI-D	D27	LD	LIC	DURANT, OK	BLANK0000063814	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	37.5 km
	K19II-D	D26	LD	CP	ARDMORE, OK	BLANK0000072054	37.5
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614	281.0
	KFOR-TV	D27	DT	CP	OKLAHOMA CITY, OK	BLANK0000127588	201.9
	KDFI	D27	DT	LIC	DALLAS, TX	BLANK0000074883	165.2
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	139.7
Service area					Terrain-limited	IX-free, before	IX-free, after
6337.1	148,538	6306.2	147,463	5977.6	127,549	5975.7	127,536
Undesired					Total IX	Unique IX, before	Unique IX, after
K31LQ-D D28 LD APP	21.7	238				2.0	13
K19II-D D26 LD CP	28.6	234	12.8	124		5.9	0
KFTA-TV D27 DT CP	6.0	19	0.0	0		0.0	0
KFOR-TV D27 DT CP	45.8	2,784	6.0	25		5.0	25
KDFI D27 DT LIC	305.8	19,758	260.1	16,896		259.1	16,896

Interference to BLANK0000063814 LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K46AI-D	D27	LD	LIC	DURANT, OK	BLANK0000063814	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	37.5 km
	K19II-D	D26	LD	CP	ARDMORE, OK	BLANK0000072054	37.5
	KFTA-TV	D27	DT	LIC	FORT SMITH, AR	BLCDT20090331AEC	281.0
	KFOR-TV	D27	DT	CP	OKLAHOMA CITY, OK	BLANK0000127588	201.9
	KDFI	D27	DT	LIC	DALLAS, TX	BLANK0000074883	165.2
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	139.7
Service area					Terrain-limited	IX-free, before	IX-free, after
6337.1	148,538	6306.2	147,463	5977.6	127,549	5975.7	127,536
Undesired					Total IX	Unique IX, before	Unique IX, after
K31LQ-D D28 LD APP	21.7	238				2.0	13
K19II-D D26 LD CP	28.6	234	12.8	124		5.9	0
KFTA-TV D27 DT LIC	3.0	12	0.0	0		0.0	0
KFOR-TV D27 DT CP	45.8	2,784	7.0	32		6.0	32
KDFI D27 DT LIC	305.8	19,758	260.1	16,896		259.1	16,896

Interference to BLANK0000074883 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDFI	D27	DT	LIC	DALLAS, TX	BLANK0000074883	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	161.7 km
	KXXXV	D26	DT	LIC	WACO, TX	BLCDT20050630AFE	142.1
	KFOR-TV	D27	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121786	334.9
	KBVO	D27	DT	LIC	LLANO, TX	BLCDT20090622ABA	260.0
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	27.1
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	145.0
Service area					Terrain-limited	IX-free, before	IX-free, after
38855.5	6,682,284	38512.1	6,679,900	37879.5	6,671,847	37879.5	6,671,847
Undesired					Total IX	Unique IX, before	Unique IX, after
K31LQ-D D28 LD APP	7.9	226				0.0	0
KXXXV D26 DT LIC	324.3	5,059	180.8	3,729		180.8	3,729
KFOR-TV D27 DT LIC	104.3	2,009	85.4	1,750		77.5	1,524
KBVO D27 DT LIC	264.3	2,118	196.9	979		196.9	979

Table 1 K28QF-D TVStudy Analysis of Proposal
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KLEG-CD D28 DC LIC	2.0	0	2.0	0	2.0	0
KWKT-TV D28 DT LIC	137.4	1,304	2.0	6	2.0	6

Interference to BLANK0000074883 LIC scenario 2

Desired:	Call KDFI	Chan D27	Svc DT	Status LIC	City, State DALLAS, TX	File Number BLANK0000074883	Distance
Undesireds:	K31LQ-D KXXV KFOR-TV KBVO KLEG-CD KWKT-TV	D28 D26 D27 D27 D28 D28	LD DT CP LIC DC DT	APP LIC CP LIC LIC LIC	SHERMAN, TX WACO, TX OKLAHOMA CITY, OK LLANO, TX DALLAS, TX WACO, TX	K31LQ-D Ch28_TLP-H BLCDT20050630AFE BLANK0000127588 BLCDT20090622ABA BLANK0000080460 BLANK0000117686	161.7 km 142.1 334.9 260.0 27.1 145.0

Service area	Terrain-limited			IX-free, before		IX-free, after	Percent New IX
38855.5	38512.1	6,682,284	6,679,900	37849.7	6,671,441	37849.7	6,671,441
Undesired				Total IX	Unique IX, before	Unique IX, after	
K31LQ-D D28 LD APP		7.9		226	0.0	0	
KXXV D26 DT LIC	324.3		5,059	180.8	3,729	180.8	3,729
KFOR-TV D27 DT CP	141.1		2,444	115.2	2,156	107.3	1,930
KBVO D27 DT LIC	264.3		2,118	189.9	950	189.9	950
KLEG-CD D28 DC LIC	2.0		0	2.0	0	2.0	0
KWKT-TV D28 DT LIC	137.4		1,304	2.0	6	2.0	6

Interference to BLANK0000074883 LIC scenario 3

Desired:	Call KDFI	Chan D27	Svc DT	Status LIC	City, State DALLAS, TX	File Number BLANK0000074883	Distance
Undesireds:	K31LQ-D KXXV KFOR-TV KBVO KLEG-CD KWKT-TV	D28 D26 D27 D27 D28 D28	LD DT LIC LIC DC DT	APP LIC CP LIC CP LIC	SHERMAN, TX WACO, TX OKLAHOMA CITY, OK LLANO, TX DALLAS, TX WACO, TX	K31LQ-D Ch28_TLP-H BLCDT20050630AFE BLANK0000121786 BLCDT20090622ABA BLANK0000143076 BLANK0000117686	161.7 km 142.1 334.9 260.0 27.1 145.0

Service area	Terrain-limited			IX-free, before		IX-free, after	Percent New IX
38855.5	38512.1	6,682,284	6,679,900	37881.5	6,671,847	37881.5	6,671,847
Undesired				Total IX	Unique IX, before	Unique IX, after	
K31LQ-D D28 LD APP		7.9		226	0.0	0	
KXXV D26 DT LIC	324.3		5,059	180.8	3,729	180.8	3,729
KFOR-TV D27 DT LIC	104.3		2,009	84.4	1,723	76.5	1,497
KBVO D27 DT LIC	264.3		2,118	196.9	979	196.9	979
KLEG-CD D28 DC CP	1.0		27	0.0	0	0.0	0
KWKT-TV D28 DT LIC	137.4		1,304	2.0	6	2.0	6

Interference to BLANK0000074883 LIC scenario 4

Desired:	Call KDFI	Chan D27	Svc DT	Status LIC	City, State DALLAS, TX	File Number BLANK0000074883	Distance
Undesireds:	K31LQ-D KXXV KFOR-TV KBVO KLEG-CD KWKT-TV	D28 D26 D27 D27 D28 D28	LD DT CP LIC DC DT	APP LIC LIC LIC CP LIC	SHERMAN, TX WACO, TX OKLAHOMA CITY, OK LLANO, TX DALLAS, TX WACO, TX	K31LQ-D Ch28_TLP-H BLCDT20050630AFE BLANK0000127588 BLCDT20090622ABA BLANK0000143076 BLANK0000117686	161.7 km 142.1 334.9 260.0 27.1 145.0

Service area	Terrain-limited			IX-free, before		IX-free, after	Percent New IX
38855.5	38512.1	6,682,284	6,679,900	37851.7	6,671,441	37851.7	6,671,441
Undesired				Total IX	Unique IX, before	Unique IX, after	
K31LQ-D D28 LD APP		7.9		226	0.0	0	
KXXV D26 DT LIC	324.3		5,059	180.8	3,729	180.8	3,729
KFOR-TV D27 DT CP	141.1		2,444	114.2	2,129	106.3	1,903
KBVO D27 DT LIC	264.3		2,118	189.9	950	189.9	950
KLEG-CD D28 DC CP	1.0		27	0.0	0	0.0	0

Table 1 K28QF-D TVStudy Analysis of Proposal
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KWKT-TV D28 DT LIC	137.4	1,304	2.0	6	2.0	6
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Interference to BLANK0000053971 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTBS-TV	D28	DT	LIC	SHREVEPORT, LA	BLANK0000053971	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	305.3 km
	KTVE	D27	DT	LIC	EL DORADO, AR	BLCDT20070105ABH	165.3
	KARZ-TV	D28	DT	LIC	LITTLE ROCK, AR	BLANK0000074890	270.1
	KATC	D28	DT	LIC	LAFAYETTE, LA	BLCDT20071109AAV	305.2
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	268.6
	KUGB-CD	D28	DC	CP	HOUSTON, TX	BLANK0000127537	377.3
	KCEB	D28	DT	LIC	LONGVIEW, TX	BLANK0000080719	0.0
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	354.3
Service area		Terrain-limited		IX-free, before		IX-free, after	
45366.2	1,162,809	45044.3	1,159,039	3219.0	50,780	3219.0	50,780
Undesired		Total IX		Unique IX, before		Unique IX, after	
K31LQ-D D28 LD APP	4.0	0		0.0	0	0.0	0
KTVE D27 DT LIC	988.4	14,700	0.0	0	0.0	0.0	0
KARZ-TV D28 DT LIC	165.0	1,355	0.0	0	0.0	0.0	0
KATC D28 DT LIC	485.0	6,616	0.0	0	0.0	0.0	0
KLEG-CD D28 DC LIC	12.0	303	0.0	0	0.0	0.0	0
KCEB D28 DT LIC	41825.3	1,108,259	40280.6	1,087,108	40280.6	1,087,108	
KWKT-TV D28 DT LIC	31.1	713	0.0	0	0.0	0.0	0

Interference to BLANK0000053971 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTBS-TV	D28	DT	LIC	SHREVEPORT, LA	BLANK0000053971	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	305.3 km
	KTVE	D27	DT	LIC	EL DORADO, AR	BLCDT20070105ABH	165.3
	KARZ-TV	D28	DT	LIC	LITTLE ROCK, AR	BLANK0000074890	270.1
	KATC	D28	DT	LIC	LAFAYETTE, LA	BLCDT20071109AAV	305.2
	KLEG-CD	D28	DC	CP	DALLAS, TX	BLANK0000143076	268.6
	KUGB-CD	D28	DC	CP	HOUSTON, TX	BLANK0000127537	377.3
	KCEB	D28	DT	LIC	LONGVIEW, TX	BLANK0000080719	0.0
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	354.3
Service area		Terrain-limited		IX-free, before		IX-free, after	
45366.2	1,162,809	45044.3	1,159,039	3219.0	50,780	3219.0	50,780
Undesired		Total IX		Unique IX, before		Unique IX, after	
K31LQ-D D28 LD APP	4.0	0		0.0	0	0.0	0
KTVE D27 DT LIC	988.4	14,700	0.0	0	0.0	0.0	0
KARZ-TV D28 DT LIC	165.0	1,355	0.0	0	0.0	0.0	0
KATC D28 DT LIC	485.0	6,616	0.0	0	0.0	0.0	0
KLEG-CD D28 DC CP	2.0	34	0.0	0	0.0	0.0	0
KCEB D28 DT LIC	41825.3	1,108,259	40283.6	1,087,164	40283.6	1,087,164	
KWKT-TV D28 DT LIC	31.1	713	0.0	0	0.0	0.0	0

Interference to BLANK0000053971 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTBS-TV	D28	DT	LIC	SHREVEPORT, LA	BLANK0000053971	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	305.3 km
	KTVE	D27	DT	LIC	EL DORADO, AR	BLCDT20070105ABH	165.3
	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000127609	270.1
	KATC	D28	DT	LIC	LAFAYETTE, LA	BLCDT20071109AAV	305.2
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	268.6
	KUGB-CD	D28	DC	CP	HOUSTON, TX	BLANK0000127537	377.3
	KCEB	D28	DT	LIC	LONGVIEW, TX	BLANK0000080719	0.0
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	354.3
Service area		Terrain-limited		IX-free, before		IX-free, after	
45366.2	1,162,809	45044.3	1,159,039	3219.0	50,780	3219.0	50,780

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Undesired		Total IX	Unique IX, before		Unique IX, after	
K31LQ-D	D28 LD APP	4.0	0	0.0	0.0	0
KTVE	D27 DT LIC	988.4	14,700	0.0	0.0	0
KARZ-TV	D28 DT CP	273.5	1,680	0.0	0.0	0
KATC	D28 DT LIC	485.0	6,616	0.0	0.0	0
KLEG-CD	D28 DC CP	12.0	303	0.0	0.0	0
KCEB	D28 DT LIC	41825.3	1,108,259	40234.9	1,086,961	40234.9
KWKT-TV	D28 DT LIC	31.1	713	0.0	0.0	0

Interference to BLANK0000053971 LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTBS-TV	D28	DT	LIC	SHREVEPORT, LA	BLANK0000053971	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	305.3 km
	KTVE	D27	DT	LIC	EL DORADO, AR	BLCDT20070105ABH	165.3
	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000127609	270.1
	KATC	D28	DT	LIC	LAFAYETTE, LA	BLCDT20071109AAV	305.2
	KLEG-CD	D28	DC	CP	DALLAS, TX	BLANK0000143076	268.6
	KUGB-CD	D28	DC	CP	HOUSTON, TX	BLANK0000127537	377.3
	KCEB	D28	DT	LIC	LONGVIEW, TX	BLANK0000080719	0.0
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	354.3
Service area		Terrain-limited			IX-free, before	IX-free, after	Percent New IX
45366.2	1,162,809	45044.3	1,159,039	3219.0	50,780	3219.0	50,780
Undesired		Total IX			Unique IX, before	Unique IX, after	
K31LQ-D	D28 LD APP	4.0	0	0.0	0.0	0	
KTVE	D27 DT LIC	988.4	14,700	0.0	0.0	0	
KARZ-TV	D28 DT CP	273.5	1,680	0.0	0.0	0	
KATC	D28 DT LIC	485.0	6,616	0.0	0.0	0	
KLEG-CD	D28 DC CP	2.0	34	0.0	0.0	0	
KCEB	D28 DT LIC	41825.3	1,108,259	40238.0	1,087,017	40238.0	1,087,017
KWKT-TV	D28 DT LIC	31.1	713	0.0	0.0	0	

Interference to BLCDT20020510AAQ LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	209.4 km
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614	179.7
	KFOR-TV	D27	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121786	126.6
	KARZ-TV	D28	DT	LIC	LITTLE ROCK, AR	BLANK0000074890	349.0
	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB	322.7
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	345.1
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	309.8
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	126.5
	KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113	37.7
Service area		Terrain-limited			IX-free, before	IX-free, after	Percent New IX
20552.0	1,065,078	20363.7	1,063,941	19891.2	1,055,286	19888.2	1,055,263
Undesired		Total IX			Unique IX, before	Unique IX, after	
K31LQ-D	D28 LD APP	14.0	307	3.0	23		
KFOR-TV	D27 DT LIC	131.5	2,596	11.1	56	11.1	56
KARZ-TV	D28 DT LIC	1.0	0	0.0	0	0.0	0
KOZL-TV	D28 DT LIC	67.2	794	57.2	634	57.2	634
KFDX-TV	D28 DT LIC	49.0	270	33.0	183	25.0	81
KTUZ-TV	D29 DT LIC	301.9	5,011	178.5	2,438	177.5	2,339
KTZT-CD	D29 DC CP	68.4	2,771	59.4	2,611	59.4	2,611

Interference to BLCDT20020510AAQ LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	209.4 km
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614	179.7

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KFOR-TV	D27	DT	CP	OKLAHOMA CITY, OK	BLANK0000127588	126.6
KARZ-TV	D28	DT	LIC	LITTLE ROCK, AR	BLANK0000074890	349.0
KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB	322.7
KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	345.1
KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	309.8
KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	126.5
KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113	37.7
Service area						
20552.0	1,065,078	20363.7	1,063,941	19883.1	1,055,147	IX-free, before
					19880.2	IX-free, after
					1,055,124	Percent New IX
					0.02	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after
K31LQ-D	D28	LD	APP	14.0	307	3.0
KFOR-TV	D27	DT	CP	167.5	2,981	19.1
KARZ-TV	D28	DT	LIC	1.0	0	0.0
KOZL-TV	D28	DT	LIC	67.2	794	57.2
KFDX-TV	D28	DT	LIC	49.0	270	33.0
KTUZ-TV	D29	DT	LIC	301.9	5,011	150.4
KTZT-CD	D29	DC	CP	68.4	2,771	59.4
-----					2,192	2,093
					149.4	2,611
					59.4	2,611
Interference to BLCDT20020510AAQ LIC scenario 3						
Desired:	Call	Chan	Svc	Status	City, State	File Number
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614
	KFOR-TV	D27	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121786
	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000127609
	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO
	KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113
Service area				Total IX	Unique IX, before	Unique IX, after
20552.0	1,065,078	20363.7	1,063,941	19891.2	1,055,286	209.4 km
					19888.2	IX-free, after
					1,055,263	Percent New IX
					0.02	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after
K31LQ-D	D28	LD	APP	14.0	307	3.0
KFOR-TV	D27	DT	LIC	131.5	2,596	11.1
KARZ-TV	D28	DT	CP	5.0	11	0.0
KOZL-TV	D28	DT	LIC	67.2	794	53.2
KFDX-TV	D28	DT	LIC	49.0	270	33.0
KTUZ-TV	D29	DT	LIC	301.9	5,011	178.5
KTZT-CD	D29	DC	CP	68.4	2,771	59.4
-----					2,438	2,339
					177.5	2,611
					59.4	2,611
Interference to BLCDT20020510AAQ LIC scenario 4						
Desired:	Call	Chan	Svc	Status	City, State	File Number
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614
	KFOR-TV	D27	DT	CP	OKLAHOMA CITY, OK	BLANK0000127588
	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000127609
	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO
	KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113
Service area				Total IX	Unique IX, before	Unique IX, after
20552.0	1,065,078	20363.7	1,063,941	19883.1	1,055,147	209.4 km
					19880.2	IX-free, after
					1,055,124	Percent New IX
					0.02	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after
K31LQ-D	D28	LD	APP	14.0	307	3.0
KFOR-TV	D27	DT	CP	167.5	2,981	19.1
KARZ-TV	D28	DT	CP	5.0	11	0.0
KOZL-TV	D28	DT	LIC	67.2	794	53.2
KFDX-TV	D28	DT	LIC	49.0	270	33.0

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KTUZ-TV D29 DT LIC	301.9	5,011	150.4	2,192	149.4	2,093
KTZT-CD D29 DC CP	68.4	2,771	59.4	2,611	59.4	2,611

Interference to BLCDT20020510AAQ LIC scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28 TLP-H	209.4 km
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614	179.7
	KFOR-TV	D27	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121786	126.6
	KARZ-TV	D28	DT	LIC	LITTLE ROCK, AR	BLANK0000074890	349.0
	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB	322.7
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	345.1
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	309.8
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	126.5
	KTZT-CD	D29	DC	LIC	TULSA, OK	BLDTA20120430AEA	37.7
Service area							
20552.0	1,065,078	20363.7	1,063,941	19914.3	1,055,669	19911.3	1,055,646
Undesired							
K31LQ-D D28 LD APP		14.0		307	Total IX	Unique IX, before	Unique IX, after
KFOR-TV D27 DT LIC		131.5		2,596	11.1	56	11.1
KARZ-TV D28 DT LIC		1.0		0	0.0	0	0.0
KOZL-TV D28 DT LIC		67.2		794	58.2	634	58.2
KFDX-TV D28 DT LIC		49.0		270	33.0	183	25.0
KTUZ-TV D29 DT LIC		301.9		5,011	178.5	2,438	177.5
KTZT-CD D29 DC LIC		44.3		2,388	36.2	2,228	2,228

Interference to BLCDT20020510AAQ LIC scenario 6

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28 TLP-H	209.4 km
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614	179.7
	KFOR-TV	D27	DT	CP	OKLAHOMA CITY, OK	BLANK0000127588	126.6
	KARZ-TV	D28	DT	LIC	LITTLE ROCK, AR	BLANK0000074890	349.0
	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB	322.7
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	345.1
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	309.8
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	126.5
	KTZT-CD	D29	DC	LIC	TULSA, OK	BLDTA20120430AEA	37.7
Service area							
20552.0	1,065,078	20363.7	1,063,941	19906.3	1,055,530	19903.3	1,055,507
Undesired							
K31LQ-D D28 LD APP		14.0		307	Total IX	Unique IX, before	Unique IX, after
KFOR-TV D27 DT CP		167.5		2,981	19.1	195	19.1
KARZ-TV D28 DT LIC		1.0		0	0.0	0	0.0
KOZL-TV D28 DT LIC		67.2		794	58.2	634	58.2
KFDX-TV D28 DT LIC		49.0		270	33.0	183	25.0
KTUZ-TV D29 DT LIC		301.9		5,011	150.4	2,192	149.4
KTZT-CD D29 DC LIC		44.3		2,388	36.2	2,228	2,228

Interference to BLCDT20020510AAQ LIC scenario 7

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28 TLP-H	209.4 km
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614	179.7
	KFOR-TV	D27	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121786	126.6
	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000127609	349.0
	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB	322.7
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	345.1
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	309.8
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	126.5

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KTZT-CD	D29	DC	LIC	TULSA, OK	BLDTA20120430AEA	37.7
Service area 20552.0	1,065,078	20363.7	Terrain-limited 1,063,941	IX-free, before 19914.3	IX-free, after 19911.3	Percent New IX 0.02
K31LQ-D D28 LD APP	14.0	307			3.0	23
KFOR-TV D27 DT LIC	131.5	2,596	11.1	56	11.1	56
KARZ-TV D28 DT CP	5.0	11	0.0	0	0.0	0
KOZL-TV D28 DT LIC	67.2	794	54.2	623	54.2	623
KFDX-TV D28 DT LIC	49.0	270	33.0	183	25.0	81
KTUZ-TV D29 DT LIC	301.9	5,011	178.5	2,438	177.5	2,339
KTZT-CD D29 DC LIC	44.3	2,388	36.2	2,228	36.2	2,228

Interference to BLCDT20020510AAQ LIC scenario 8

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28 TLP-H	209.4 km
	KFTA-TV	D27	DT	CP	FORT SMITH, AR	BLANK0000127614	179.7
	KFOR-TV	D27	DT	CP	OKLAHOMA CITY, OK	BLANK0000127588	126.6
	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000127609	349.0
	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB	322.7
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	345.1
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	309.8
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	126.5
	KTZT-CD	D29	DC	LIC	TULSA, OK	BLDTA20120430AEA	37.7
Service area 20552.0	1,065,078	20363.7	Terrain-limited 1,063,941	IX-free, before 19906.3	IX-free, after 19903.3	Percent New IX 0.02	0.00
Undesired		Total IX		Unique IX, before	Unique IX, after		
K31LQ-D D28 LD APP	14.0	307			3.0	23	
KFOR-TV D27 DT CP	167.5	2,981	19.1	195	19.1	195	
KARZ-TV D28 DT CP	5.0	11	0.0	0	0.0	0	
KOZL-TV D28 DT LIC	67.2	794	54.2	623	54.2	623	
KFDX-TV D28 DT LIC	49.0	270	33.0	183	25.0	81	
KTUZ-TV D29 DT LIC	301.9	5,011	150.4	2,192	149.4	2,093	
KTZT-CD D29 DC LIC	44.3	2,388	36.2	2,228	36.2	2,228	

Interference to BLANK0000080460 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28 TLP-H	139.2 km
	KDFI	D27	DT	LIC	DALLAS, TX	BLANK0000074883	27.1
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	170.1
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	204.4
	KDTN	D29	DT	LIC	DENTON, TX	BLANK0000080184	26.3
Service area 8720.3	5,320,869	8708.2	Terrain-limited 5,320,462	IX-free, before 7846.7	IX-free, after 7832.8	Percent New IX 0.18	0.11
Undesired		Total IX		Unique IX, before	Unique IX, after		
K31LQ-D D28 LD APP	43.8	11,347			13.9	5,655	
KDFI D27 DT LIC	779.3	181,584	223.1	78,825	218.1	77,679	
KWKT-TV D28 DT LIC	66.3	6,938	7.0	2,681	6.0	334	
KFDX-TV D28 DT LIC	15.0	1,388	3.0	54	1.0	0	
KDTN D29 DT LIC	628.4	110,395	71.2	6,830	71.2	6,830	

Interference to BLANK0000143076 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KLEG-CD	D28	DC	CP	DALLAS, TX	BLANK0000143076	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28 TLP-H	139.2 km
	KDFI	D27	DT	LIC	DALLAS, TX	BLANK0000074883	27.1
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	170.1

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KFDX-TV KDTN	D28 D29	DT DT	LIC LIC	WICHITA FALLS, TX DENTON, TX	BLCDT20090205ABU BLANK0000080184	204.4 26.3
Service area 8253.7	5,298,246			Terrain-limited 8245.7 5,298,066	IX-free, before 7392.5 5,098,226	IX-free, after 7377.6 5,092,507
Undesired				Total IX 44.8 12,291	Unique IX, before 222.0 78,403	Unique IX, after 217.0 77,259
K31LQ-D D28 LD APP						14.9 5,719
KDFI D27 DT LIC						2.0 197
KWKT-TV D28 DT LIC						2.0 197
KFDX-TV D28 DT LIC						0.0 0
KDTN D29 DT LIC						94.3 11,327

Interference to BLANK0000080719 LIC scenario 1

Desired:	Call KCEB	Chan D28	Svc DT	Status LIC	City, State LONGVIEW, TX	File Number BLANK0000080719	Distance
Undesireds:	K31LQ-D KTVE KARZ-TV KATC KTBS-TV KLEG-CD KUGB-CD KWKT-TV	D28 D27 D28 D28 D28 D28 D28 D28	LD DT DT DT DT DC DC DT	APP LIC LIC LIC LIC LIC CP LIC	SHERMAN, TX EL DORADO, AR LITTLE ROCK, AR LAFAYETTE, LA SHREVEPORT, LA DALLAS, TX HOUSTON, TX WACO, TX	K31LQ-D Ch28_TLP-H BLCDT20070105ABH BLANK0000074890 BLCDT20071109AAV BLANK0000053971 BLANK0000080460 BLANK0000127537 BLANK0000117686	305.3 km 165.3 270.1 305.2 0.0 268.6 377.3 354.3
Service area 45366.2	1,162,809				Terrain-limited 45044.3 1,159,039	IX-free, before 3219.0 50,780	IX-free, after 3219.0 50,780
Undesired					Total IX 4.0 0	Unique IX, before 0.0 0	Unique IX, after 0.0 0
K31LQ-D D28 LD APP							
KTVE D27 DT LIC							
KARZ-TV D28 DT LIC							
KATC D28 DT LIC							
KTBS-TV D28 DT LIC							
KLEG-CD D28 DC LIC							
KUGB-CD D28 DC CP							
KWKT-TV D28 DT LIC							

Interference to BLANK0000080719 LIC scenario 2

Desired:	Call KCEB	Chan D28	Svc DT	Status LIC	City, State LONGVIEW, TX	File Number BLANK0000080719	Distance
Undesireds:	K31LQ-D KTVE KARZ-TV KATC KTBS-TV KLEG-CD KUGB-CD KWKT-TV	D28 D27 D28 D28 D28 D28 D28 D28	LD DT DT DT DT DC DC DT	APP LIC LIC LIC LIC LIC CP LIC	SHERMAN, TX EL DORADO, AR LITTLE ROCK, AR LAFAYETTE, LA SHREVEPORT, LA DALLAS, TX HOUSTON, TX WACO, TX	K31LQ-D Ch28_TLP-H BLCDT20070105ABH BLANK0000074890 BLCDT20071109AAV BLANK0000053971 BLANK0000143076 BLANK0000127537 BLANK0000117686	305.3 km 165.3 270.1 305.2 0.0 268.6 377.3 354.3
Service area 45366.2	1,162,809				Terrain-limited 45044.3 1,159,039	IX-free, before 3219.0 50,780	IX-free, after 3219.0 50,780
Undesired					Total IX 4.0 0	Unique IX, before 0.0 0	Unique IX, after 0.0 0
K31LQ-D D28 LD APP							
KTVE D27 DT LIC							
KARZ-TV D28 DT LIC							
KATC D28 DT LIC							
KTBS-TV D28 DT LIC							
KLEG-CD D28 DC CP							
KUGB-CD D28 DC CP							
KWKT-TV D28 DT LIC							

Interference to BLANK0000080719 LIC scenario 3

Desired:	Call KCEB	Chan D28	Svc DT	Status LIC	City, State LONGVIEW, TX	File Number BLANK0000080719	Distance
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Table 1 K28QF-D TVStudy Analysis of Proposal
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Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	305.3 km
	KTVE	D27	DT	LIC	EL DORADO, AR	BLCDT20070105ABH	165.3
	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000127609	270.1
	KATC	D28	DT	LIC	LAFAYETTE, LA	BLCDT20071109AAV	305.2
	KTBS-TV	D28	DT	LIC	SHREVEPORT, LA	BLANK0000053971	0.0
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	268.6
	KUGB-CD	D28	DC	CP	HOUSTON, TX	BLANK0000127537	377.3
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	354.3
Service area							
45366.2	1,162,809	45044.3	1,159,039	3219.0	50,780	3219.0	50,780
Percent New IX						0.00	0.00

Undesired		Total IX	Unique IX, before	Unique IX, after		
K31LQ-D D28 LD APP	4.0	0	0.0	0.0	0	0
KTVE D27 DT LIC	988.4	14,700	0.0	0.0	0	0
KARZ-TV D28 DT CP	273.5	1,680	0.0	0.0	0	0
KATC D28 DT LIC	485.0	6,616	0.0	0.0	0	0
KTBS-TV D28 DT LIC	41825.3	1,108,259	40234.9	1,086,961	40234.9	1,086,961
KLEG-CD D28 DC LIC	12.0	303	0.0	0.0	0	0
KWKT-TV D28 DT LIC	31.1	713	0.0	0.0	0	0

Interference to BLANK0000080719 LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCEB	D28	DT	LIC	LONGVIEW, TX	BLANK0000080719	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	305.3 km
	KTVE	D27	DT	LIC	EL DORADO, AR	BLCDT20070105ABH	165.3
	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000127609	270.1
	KATC	D28	DT	LIC	LAFAYETTE, LA	BLCDT20071109AAV	305.2
	KTBS-TV	D28	DT	LIC	SHREVEPORT, LA	BLANK0000053971	0.0
	KLEG-CD	D28	DC	CP	DALLAS, TX	BLANK0000143076	268.6
	KUGB-CD	D28	DC	CP	HOUSTON, TX	BLANK0000127537	377.3
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	354.3
Service area							
45366.2	1,162,809	45044.3	1,159,039	3219.0	50,780	3219.0	50,780
Percent New IX						0.00	0.00
Undesired		Total IX	Unique IX, before	Unique IX, after			
K31LQ-D D28 LD APP	4.0	0	0.0	0.0	0	0	0
KTVE D27 DT LIC	988.4	14,700	0.0	0.0	0	0	0
KARZ-TV D28 DT CP	273.5	1,680	0.0	0.0	0	0	0
KATC D28 DT LIC	485.0	6,616	0.0	0.0	0	0	0
KTBS-TV D28 DT LIC	41825.3	1,108,259	40238.0	1,087,017	40238.0	1,087,017	
KLEG-CD D28 DC CP	2.0	34	0.0	0.0	0	0	0
KWKT-TV D28 DT LIC	31.1	713	0.0	0.0	0	0	0

Interference to BLCDT20090205ABU LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	
Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	162.9 km
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	309.8
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	204.4
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	308.5
Service area							
28075.3	381,879	27943.9	381,193	27864.4	380,685	27440.4	379,067
Percent New IX						1.52	0.43
Undesired		Total IX	Unique IX, before	Unique IX, after			
K31LQ-D D28 LD APP	450.7	1,770	423.9	1,618	0	0	0
KTPX-TV D28 DT LIC	9.9	1	6.9	0.0	0	0	0
KLEG-CD D28 DC LIC	60.6	508	52.6	451	38.8	356	
KWKT-TV D28 DT LIC	16.9	56	12.0	0	11.0	0	0

Interference to BLCDT20090205ABU LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	

Table 1 K28QF-D TVStudy Analysis of Proposal
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Undesireds:	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	162.9 km
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	309.8
	KLEG-CD	D28	DC	CP	DALLAS, TX	BLANK0000143076	204.4
	KWKT-TV	D28	DT	LIC	WACO, TX	BLANK0000117686	308.5
Service area							
28075.3	381,879	27943.9	381,193	27839.5	380,457	27416.6	378,858
Undesired				Total IX	IX-free, before	IX-free, after	Percent New IX
K31LQ-D D28 LD APP	450.7			1,770		422.9	1,599
KTPX-TV D28 DT LIC	9.9			1	5.0	0	0.0
KLEG-CD D28 DC CP	89.4			736	77.5	679	62.6
KWKT-TV D28 DT LIC	16.9			56	10.0	0	9.0
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Interference to proposal scenario 1							
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	
Undesireds:	K46AI-D	D27	LD	LIC	DURANT, OK	BLANK0000063814	37.5 km
	KTBS-TV	D28	DT	LIC	SHREVEPORT, LA	BLANK0000053971	305.3
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	209.4
	KLEG-CD	D28	DC	LIC	DALLAS, TX	BLANK0000080460	139.2
	KCEB	D28	DT	LIC	LONGVIEW, TX	BLANK0000080719	305.3
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	162.9
Service area				Terrain-limited	IX-free		Percent IX
11858.2	266,005	11801.0	265,981	11638.5	262,811	1.38	1.19
Undesired				Total IX	Unique IX	Prcnt Unique IX	
K46AI-D D27 LD LIC	9.9			154	6.9	142	0.06 0.05
KTBS-TV D28 DT LIC	2.0			0	0.0	0	0.00 0.00
KTPX-TV D28 DT LIC	6.0			172	2.0	0	0.02 0.00
KLEG-CD D28 DC LIC	9.9			224	4.0	202	0.03 0.08
KCEB D28 DT LIC	2.0			0	0.0	0	0.00 0.00
KFDX-TV D28 DT LIC	148.6			2,826	134.6	2,620	1.14 0.99
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Interference to proposal scenario 2							
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K31LQ-D	D28	LD	APP	SHERMAN, TX	K31LQ-D Ch28_TLP-H	
Undesireds:	K46AI-D	D27	LD	LIC	DURANT, OK	BLANK0000063814	37.5 km
	KTBS-TV	D28	DT	LIC	SHREVEPORT, LA	BLANK0000053971	305.3
	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	209.4
	KLEG-CD	D28	DC	CP	DALLAS, TX	BLANK0000143076	139.2
	KCEB	D28	DT	LIC	LONGVIEW, TX	BLANK0000080719	305.3
	KFDX-TV	D28	DT	LIC	WICHITA FALLS, TX	BLCDT20090205ABU	162.9
Service area				Terrain-limited	IX-free		Percent IX
11858.2	266,005	11801.0	265,981	11636.6	262,811	1.39	1.19
Undesired				Total IX	Unique IX	Prcnt Unique IX	
K46AI-D D27 LD LIC	9.9			154	6.9	142	0.06 0.05
KTBS-TV D28 DT LIC	2.0			0	0.0	0	0.00 0.00
KTPX-TV D28 DT LIC	6.0			172	2.0	0	0.02 0.00
KLEG-CD D28 DC CP	14.9			224	6.0	202	0.05 0.08
KCEB D28 DT LIC	2.0			0	0.0	0	0.00 0.00
KFDX-TV D28 DT LIC	148.6			2,826	132.6	2,620	1.12 0.99

Channel and Facility Information	Section	Question	Response
	Facility ID	184857	
	State	Texas	
	City	SHERMAN	
	LPD Channel	28	

Antenna Location Data	Section	Question	Response
	Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
		ASR Number	1011273
	Coordinates (NAD83)	Latitude	34° 01' 58.0" N+
		Longitude	096° 48' 01.0" W-
		Structure Type	TOWER-A free standing or guyed struct
		Overall Structure Height	516.3 meters
		Support Structure Height	487.6 meters
		Ground Elevation (AMSL)	271.2 meters
	Antenna Data	Height of Radiation Center Above Ground Level	457.2 meters
		Height of Radiation Center Above Mean Sea Level	728.4 meters
		Effective Radiated Power	15 kW

Antenna Technical Data	Section	Question	Response
	Antenna Type	Antenna Type	Directional Custom
		Do you have an Antenna ID?	No
		Antenna ID	
	Antenna Manufacturer and Model	Manufacturer:	Dielectric
		Model	TLP-12H/VP
		Rotation	90 degrees
		Electrical Beam Tilt	1.0
		Mechanical Beam Tilt	Not Applicable
		toward azimuth	
		Polarization	Elliptical
	Elevation Radiation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
		Uploaded file for elevation antenna (or radiation) pattern data	
		Out-of-Channel Emission Mask:	Full Service

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	1.000	90	0.911	180	0.521	270	0.918
10	0.977	100	0.880	190	0.511	280	0.885
20	0.917	110	0.788	200	0.477	290	0.834
30	0.842	120	0.673	210	0.446	300	0.793
40	0.776	130	0.560	220	0.468	310	0.777
50	0.768	140	0.467	230	0.560	320	0.816
60	0.779	150	0.430	240	0.688	330	0.885
70	0.828	160	0.452	250	0.810	340	0.949
80	0.885	170	0.495	260	0.891	350	0.984

Additional Azimuths

Degree	V _A