

ENGINEERING EXHIBIT

Digital Low Power Television Station Application for Minor Modification of Licensed Facility prepared for

Gray Television Licensee, LLC
KTEV-LD Texarkana, AR
Facility ID 58984
Ch. 19 15 kW Nondirectional

Gray Television Licensee, LLC (“Gray”) is the licensee of digital Low Power Television station KTEV-LD, Channel 19, Facility ID 58984, Texarkana AR. KTEV-LD is licensed to operate at 0.41 kW effective radiated power (“ERP”) with a directional antenna (file# 0000149867). *Gray* herein seeks a minor modification Construction Permit to relocate KTEV-LD and to utilize a nondirectional antenna at increased ERP and antenna height.

The proposed facility will employ a new antenna system to be side-mounted on the existing tower structure associated with FCC Antenna Structure Registration number 1220983, located 12.2 km (7.4 miles) from the licensed site. No change to the overall structure height is proposed.

The proposed antenna is a Dielectric model TLP-12A/VP-R having elliptical polarization. The ERP is 15 kW horizontally polarized and 4.5 kW vertically polarized using a “full service” out of channel emission mask. Figure 1 depicts the coverage contour of the proposed facility as well as that of the licensed facility, demonstrating compliance with §73.3572 for a minor change.

Interference study per OET Bulletin 69¹ 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

¹FCC 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 1.0 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC’s implementation of TVStudy show excellent correlation.

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 $2.1 \mu\text{W}/\text{cm}^2$, which is 0.6 percent of the general population / uncontrolled maximum permissible exposure limit. This is 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.

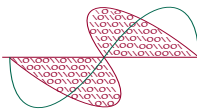
The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power 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.

List of Attachments

Figure 1	Coverage Contour Comparison
Table 1	TVStudy Analysis of Proposal
Form 2100	Saved Version of Engineering Sections of FCC Form at Time of Upload

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E.	April 15, 2022	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600



Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 1
Coverage Contour Comparison
KTEV-LD Texarkana, AR
Facility ID 58984
Ch. 19 15 kW Nondirectional

prepared for
Gray Television Licensee, LLC

April, 2022

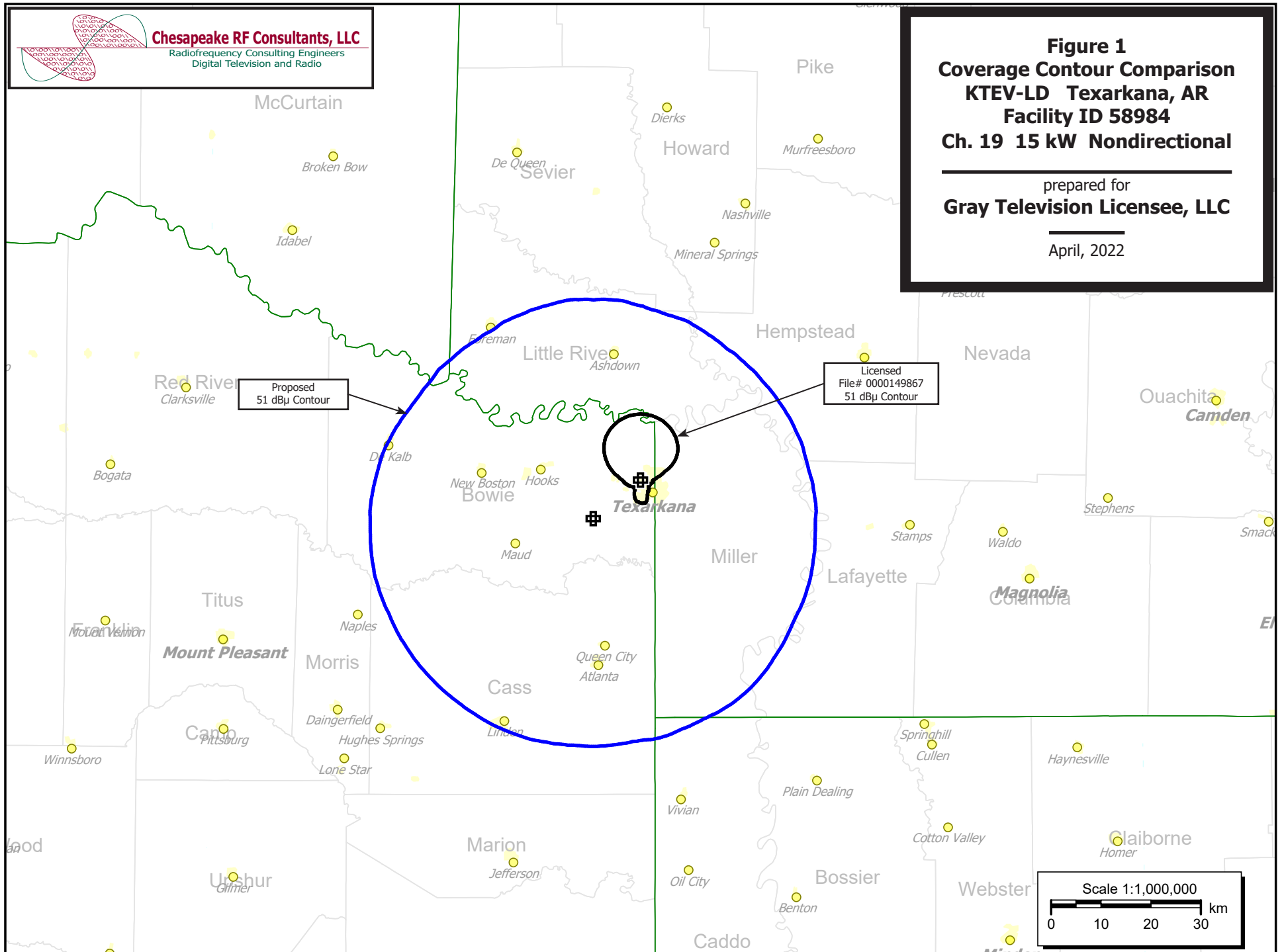


Table 1 KTEV-LD TVStudy Analysis of Proposal (page 1 of 8)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KTEV-LD 1220983 370ft, Model: Longley-Rice
Start: 2022.04.15 13:49:51

Study created: 2022.04.15 13:49:50

Study build station data: LMS TV 2022-04-15

Proposal: KTEV-LD D19 LD APP TEXARKANA, AR
File number: KTEV-LD 1220983 370ft
Facility ID: 58984
Station data: User record
Record ID: 4342
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
No	KMYA-DT	D18	DT	LIC	CAMDEN, AR	BLANK0000181238	137.2 km
No	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	272.6
No	KTVV-LD	D18	LD	LIC	HOT SPRINGS, AR	BLANK0000062885	221.0
Yes	K18NM-D	D18	LD	CP	TEXARKANA, AR	BLANK0000071802	26.2
No	DKWMS-LP	D18	LD	APP	WEST MONROE, LA	BDISDTL20101001AAD	214.5
No	KTXA	D18	DT	LIC	FORT WORTH, TX	BLANK0000091060	275.7
No	KQKT-LD	D18	LD	CP	TYLER, TX	BLANK0000072035	164.1
Yes	K16IP-D	D19	LD	CP	BONNERDALE, AR	BLANK0000051750	148.7
Yes	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	193.6
No	KIPB-LD	D19	LD	LIC	PINE BLUFF, AR	BLDTL20121231ALR	219.6
No	K19MT-D	D19	LD	CP	SPRINGDALE, AR	BLANK0000071784	314.4
No	KAJN-CD	D19	DC	LIC	LAFAYETTE, LA	BLANK0000063952	423.4
No	KWWE-LD	D19	LD	LIC	LAKE CHARLES, LA	BLANK0000068452	360.2
No	DDKNTS-LP	D19	LD	APP	NATCHITOCHES, LA	BLDTL20120614AAB	206.6
Yes	KARD	D19	DT	LIC	WEST MONROE, LA	BLANK0000063972	235.0
No	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	436.6
No	W19EF-D	D19	LD	CP	GREENVILLE, MS	BLANK0000178381	293.8
No	KAUT-TV	D19	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121785	389.2
No	KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000127590	389.2
No	KOTV-DT	D19	LD	LIC	TULSA, OK	BLCDT20120816ABS	227.4
No	KJYK-LD	D19	LD	LIC	BEAUMONT, TX	BLANK0000179010	378.7
Yes	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	275.7
No	KTXH	D19	DT	LIC	HOUSTON, TX	BLANK0000166189	442.5
No	K19KE-D	D19	LD	CP	JOLLY, TX	BLANK0000159954	408.0
No	K20OC-D	D20	LD	LIC	EL DORADO, AR	BLANK0000084798	141.6
No	KLRA-CD	D20	DC	LIC	LITTLE ROCK, AR	BLANK0000004217	221.0
No	KBXS-CD	D20	DC	LIC	SHREVEPORT, LA	BLANK0000071739	107.3
No	KFXK-TV	D20	DT	LIC	LONGVIEW, TX	BLANK0000071623	143.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D19
Mask: Full Service
Latitude: 33 22 39.20 N (NAD83)
Longitude: 94 10 30.80 W
Height AMSL: 206.7 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.50

49.3 dBu contour:
Azimuth ERP HAAT Distance
0.0 deg 15.0 kW 107.7 m 45.6 km

Table 1 KTEV-LD TVStudy Analysis of Proposal
(page 2 of 8)



45.0	15.0	104.4	45.2
90.0	15.0	114.7	46.2
135.0	15.0	140.4	48.1
180.0	15.0	132.1	47.5
225.0	15.0	132.0	47.5
270.0	15.0	117.8	46.5
315.0	15.0	99.3	44.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 119 m

Distance to Canadian border: 1356.4 km

Distance to Mexican border: 778.3 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 209.3 degrees Distance: 749.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 310.5 degrees Distance: 1235.2 km

No land mobile station failures found

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 BLANK0000071802 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	K18NM-D	D18	LD	CP	TEXARKANA, AR	BLANK0000071802			
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	15.6 km		
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	26.2		
	KMYA-DT	D18	DT	LIC	CAMDEN, AR	BLANK0000181238	128.9		
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	249.8		
Service area		Terrain-limited			IX-free, before		IX-free, after	Percent New IX	
3659.1	116,756	3655.1	116,738		3581.0	116,191	3567.1	115,645	0.39 0.47
Undesired				Total IX		Unique IX, before		Unique IX, after	
KTEV-LD	N19+	TX	LIC	0.0		0	0.0	0	
KTEV-LD	D19	LD	APP	13.9		546	13.9	546	
KMYA-DT	D18	DT	LIC	74.1		547	71.2	547	
KFSM-TV	D18	DT	LIC	3.0		0	0.0	0	

Interference to BLANK0000051750 CP scenario 1

Desired:	Call K16IP-D	Chan D19	Svc LD	Status CP	City, State BONNERDALE, AR	File Number BLANK0000051750	Distance	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	136.6 km	
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	148.7	
	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	176.5	
	KIPB-LD	D19	LD	LIC	PINE BLUFF, AR	BLDTL20121231ALR	90.3	
	KARD	D19	DT	LIC	WEST MONROE, LA	BLANK0000063972	255.8	
	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	320.4	
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX	
5309.8	143,808	5090.9	135,891	4776.3	132,448	4772.3	132,372	0.08 0.06
Undesired				Total IX	Unique IX, before	Unique IX, after		
KTEV-LD N19+ TX LIC	0.0			0	0.0	0		
KTEV-LD D19 LD APP	7.0			86			4.0	76
KUFS-LD D19+ LD LIC	1.0			0	0.0	0	0.0	0

Table 1 KTEV-LD TVStudy Analysis of Proposal
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KIPB-LD D19 LD LIC	284.7	2,347	261.9	1,931	261.9	1,931
KARD D19 DT LIC	51.7	1,471	28.9	1,096	28.9	1,096
KYTV D19 DT LIC	2.0	41	0.0	0	0.0	0

Interference to BLANK0000067178 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	188.7 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	193.6
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	97.2
	K19MT-D	D19	LD	CP	SPRINGDALE, AR	BLANK0000071784	136.9
	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	281.5
	KAUT-TV	D19	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121785	260.5
	KOTV-DT	D19	LD	LIC	TULSA, OK	BLCDT20120816ABS	93.3
	KJNM-LD	D20	LD	CP	FAYETTEVILLE, AR	BLANK0000181324	134.9
	K200L-D	D20	LD	LIC	FORT SMITH, AR	BLANK0000151265	51.1
	KQCW-DT	D20	DT	CP	MUSKOGEE, OK	BLANK0000035925	138.8
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	8994.5	284,525	7858.5	269,677	7779.7	268,400	0.01 0.00
<hr/>							
Undesired			Total IX	Unique IX, before		Unique IX, after	
KTEV-LD N19+ TX LIC			0.0	0		0	
KTEV-LD D19 LD APP			2.0	0		1.0	0
KFSM-TV D18 DT LIC			18.9	221	13.9	114	114
K19MT-D D19 LD CP			3.0	0	0.0	0	0
KYTV D19 DT LIC			32.0	265	26.0	158	158
KAUT-TV D19 DT LIC			30.9	852	28.9	852	852
KOTV-DT D19 LD LIC			2.0	46	1.0	46	46
KQCW-DT D20 DT CP			1.0	0	1.0	0	0

Interference to BLANK0000067178 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	188.7 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	193.6
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	97.2
	K19MT-D	D19	LD	CP	SPRINGDALE, AR	BLANK0000071784	136.9
	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	281.5
	KAUT-TV	D19	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121785	260.5
	KOTV-DT	D19	LD	LIC	TULSA, OK	BLCDT20120816ABS	93.3
	KJNM-LD	D20	LD	CP	FAYETTEVILLE, AR	BLANK0000181324	134.9
	K200L-D	D20	LD	LIC	FORT SMITH, AR	BLANK0000151265	51.1
<hr/>							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	8994.5	284,525	7858.5	269,677	7780.7	268,400	0.01 0.00
<hr/>							
Undesired			Total IX	Unique IX, before		Unique IX, after	
KTEV-LD N19+ TX LIC			0.0	0		0	
KTEV-LD D19 LD APP			2.0	0		1.0	0
KFSM-TV D18 DT LIC			18.9	221	13.9	114	114
K19MT-D D19 LD CP			3.0	0	0.0	0	0
KYTV D19 DT LIC			32.0	265	26.0	158	158
KAUT-TV D19 DT LIC			30.9	852	28.9	852	852
KOTV-DT D19 LD LIC			2.0	46	1.0	46	46

Interference to BLANK0000067178 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	188.7 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	193.6
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	97.2
	K19MT-D	D19	LD	CP	SPRINGDALE, AR	BLANK0000071784	136.9
	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	281.5

Table 1 KTEV-LD TVStudy Analysis of Proposal
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KAUT-TV	D19	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121785	260.5
KOTV-DT	D19	LD	LIC	TULSA, OK	BLCDDT20120816ABS	93.3
KJNM-LD	D20	LD	CP	FAYETTEVILLE, AR	BLANK0000181324	134.9
K200L-D	D20	LD	CP	FORT SMITH, AR	BLANK0000151578	51.1
KQCW-DT	D20	DT	CP	MUSKOGEE, OK	BLANK0000035925	138.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
8994.5 284,525	7858.5 269,677	7755.9 266,281	7754.9 266,281	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KTEV-LD N19+ TX LIC	0.0 0	0.0 0	
KTEV-LD D19 LD APP	2.0 0		1.0 0
KFSM-TV D18 DT LIC	18.9 221	12.9 110	12.9 110
K19MT-D D19 LD CP	3.0 0	0.0 0	0.0 0
KYTV D19 DT LIC	32.0 265	25.0 158	25.0 158
KAUT-TV D19 DT LIC	30.9 852	28.9 852	28.9 852
KOTV-DT D19 LD LIC	2.0 46	1.0 46	1.0 46
K200L-D D20 LD CP	25.8 2,123	23.8 2,119	23.8 2,119
KQCW-DT D20 DT CP	1.0 0	1.0 0	1.0 0

Interference to BLANK0000067178 LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	188.7 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	193.6
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDDT20060530AIM	97.2
	K19MT-D	D19	LD	CP	SPRINGDALE, AR	BLANK0000071784	136.9
	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	281.5
	KAUT-TV	D19	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121785	260.5
	KOTV-DT	D19	LD	LIC	TULSA, OK	BLCDDT20120816ABS	93.3
	KJNM-LD	D20	LD	CP	FAYETTEVILLE, AR	BLANK0000181324	134.9
	K200L-D	D20	LD	CP	FORT SMITH, AR	BLANK0000151578	51.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
8994.5 284,525	7858.5 269,677	7756.9 266,281	7755.9 266,281	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KTEV-LD N19+ TX LIC	0.0 0	0.0 0	
KTEV-LD D19 LD APP	2.0 0		1.0 0
KFSM-TV D18 DT LIC	18.9 221	12.9 110	12.9 110
K19MT-D D19 LD CP	3.0 0	0.0 0	0.0 0
KYTV D19 DT LIC	32.0 265	25.0 158	25.0 158
KAUT-TV D19 DT LIC	30.9 852	28.9 852	28.9 852
KOTV-DT D19 LD LIC	2.0 46	1.0 46	1.0 46
K200L-D D20 LD CP	25.8 2,123	23.8 2,119	23.8 2,119

Interference to BLANK0000067178 LIC scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	188.7 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	193.6
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDDT20060530AIM	97.2
	K19MT-D	D19	LD	CP	SPRINGDALE, AR	BLANK0000071784	136.9
	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	281.5
	KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000127590	260.5
	KOTV-DT	D19	LD	LIC	TULSA, OK	BLCDDT20120816ABS	93.3
	KJNM-LD	D20	LD	CP	FAYETTEVILLE, AR	BLANK0000181324	134.9
	K200L-D	D20	LD	LIC	FORT SMITH, AR	BLANK0000151265	51.1
	KQCW-DT	D20	DT	CP	MUSKOGEE, OK	BLANK0000035925	138.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
8994.5 284,525	7858.5 269,677	7774.7 268,362	7773.7 268,362	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KTEV-LD N19+ TX LIC	0.0 0	0.0 0	
KTEV-LD D19 LD APP	2.0 0		1.0 0
KFSM-TV D18 DT LIC	18.9 221	12.9 114	12.9 114

Table 1 KTEV-LD TVStudy Analysis of Proposal
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K19MT-D D19 LD CP	3.0	0	0.0	0	0.0	0
KYTV D19 DT LIC	32.0	265	26.0	158	26.0	158
KAUT-TV D19 DT CP	36.9	890	33.9	890	33.9	890
KOTV-DT D19 LD LIC	2.0	46	1.0	46	1.0	46
KQCW-DT D20 DT CP	1.0	0	1.0	0	1.0	0

Interference to BLANK0000067178 LIC scenario 6

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	188.7 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	193.6
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDDT20060530AIM	97.2
	K19MT-D	D19	LD	CP	SPRINGDALE, AR	BLANK0000071784	136.9
	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	281.5
	KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000127590	260.5
	KOTV-DT	D19	LD	LIC	TULSA, OK	BLCDDT20120816ABS	93.3
	KJNM-LD	D20	LD	CP	FAYETTEVILLE, AR	BLANK0000181324	134.9
	K20OL-D	D20	LD	LIC	FORT SMITH, AR	BLANK0000151265	51.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8994.5		284,525		7775.7		268,362	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KTEV-LD N19+ TX LIC	0.0	0	0
KTEV-LD D19 LD APP	2.0	0	1.0
KFSM-TV D18 DT LIC	18.9	221	12.9
K19MT-D D19 LD CP	3.0	0	0.0
KYTV D19 DT LIC	32.0	265	26.0
KAUT-TV D19 DT CP	36.9	890	33.9
KOTV-DT D19 LD LIC	2.0	46	1.0

Interference to BLANK0000067178 LIC scenario 7

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	188.7 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	193.6
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDDT20060530AIM	97.2
	K19MT-D	D19	LD	CP	SPRINGDALE, AR	BLANK0000071784	136.9
	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	281.5
	KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000127590	260.5
	KOTV-DT	D19	LD	LIC	TULSA, OK	BLCDDT20120816ABS	93.3
	KJNM-LD	D20	LD	CP	FAYETTEVILLE, AR	BLANK0000181324	134.9
	K20OL-D	D20	LD	CP	FORT SMITH, AR	BLANK0000151578	51.1
	KQCW-DT	D20	DT	CP	MUSKOGEE, OK	BLANK0000035925	138.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8994.5		284,525		7750.9		266,243	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KTEV-LD N19+ TX LIC	0.0	0	0
KTEV-LD D19 LD APP	2.0	0	1.0
KFSM-TV D18 DT LIC	18.9	221	11.9
K19MT-D D19 LD CP	3.0	0	0.0
KYTV D19 DT LIC	32.0	265	25.0
KAUT-TV D19 DT CP	36.9	890	33.9
KOTV-DT D19 LD LIC	2.0	46	1.0
K20OL-D D20 LD CP	25.8	2,123	23.8
KQCW-DT D20 DT CP	1.0	0	1.0

Interference to BLANK0000067178 LIC scenario 8

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUFS-LD	D19+	LD	LIC	FORT SMITH, AR	BLANK0000067178	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	188.7 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	193.6

Table 1 KTEV-LD TVStudy Analysis of Proposal
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KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	97.2
K19MT-D	D19	LD	CP	SPRINGDALE, AR	BLANK0000071784	136.9
KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000172336	281.5
KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000127590	260.5
KOTV-DT	D19	LD	LIC	TULSA, OK	BLCDT20120816ABS	93.3
KJNM-LD	D20	LD	CP	FAYETTEVILLE, AR	BLANK0000181324	134.9
K20OL-D	D20	LD	CP	FORT SMITH, AR	BLANK0000151578	51.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
8994.5 284,525	7858.5 269,677	7751.9 266,243	7750.9 266,243	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KTEV-LD N19+ TX LIC	0.0 0	0.0 0	
KTEV-LD D19 LD APP	2.0 0		1.0 0
KFSM-TV D18 DT LIC	18.9 221	11.9 110	11.9 110
K19MT-D D19 LD CP	3.0 0	0.0 0	0.0 0
KYTV D19 DT LIC	32.0 265	25.0 158	25.0 158
KAUT-TV D19 DT CP	36.9 890	33.9 890	33.9 890
KOTV-DT D19 LD LIC	2.0 46	1.0 46	1.0 46
K20OL-D D20 LD CP	25.8 2,123	23.8 2,119	23.8 2,119

Interference to BLANK0000063972 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KARD	D19	DT	LIC	WEST MONROE, LA	BLANK0000063972	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	232.4 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	235.0
	KMYA-DT	D18	DT	LIC	CAMDEN, AR	BLANK0000181238	139.7
	WMAU-TV	D18	DT	LIC	BUDE, MS	BLEDT20090327ABW	156.8
	KAJN-CD	D19	DC	LIC	LAFAYETTE, LA	BLANK0000063952	228.1
	WDSU	D19	DT	LIC	NEW ORLEANS, LA	BLANK0000098906	318.6
	KBXS-CD	D20	DC	LIC	SHREVEPORT, LA	BLANK0000071739	155.6
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	166.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
42553.8 701,081	42437.9 700,334	41749.0 691,938	41736.9 691,892	0.03 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
KTEV-LD N19+ TX LIC	0.0 0	0.0 0	
KTEV-LD D19 LD APP	31.1 916		12.0 46
KMYA-DT D18 DT LIC	259.4 2,391	259.4 2,391	257.4 2,367
WMAU-TV D18 DT LIC	211.0 1,546	99.4 496	99.4 496
KAJN-CD D19 DC LIC	8.1 65	0.0 0	0.0 0
WDSU D19 DT LIC	127.8 1,676	19.3 200	19.3 200
KBXS-CD D20 DC LIC	106.5 2,326	106.5 2,326	89.4 1,480
WMPN-TV D20 DT LIC	117.2 2,052	83.8 1,500	83.8 1,500

Interference to BLCDT20121115ABM LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	287.1 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	275.7
	KAUT-TV	D19	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121785	339.8
	KGBS-CD	D19	DC	CP	AUSTIN, TX	BLANK0000127539	259.8
	KTXH	D19	DT	LIC	HOUSTON, TX	BLANK0000166189	358.9
	KFXK-TV	D20	DT	LIC	LONGVIEW, TX	BLANK0000071623	191.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
45657.6 6,909,682	45290.7 6,906,435	45104.7 6,904,761	45102.7 6,904,746	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KTEV-LD N19+ TX LIC	0.0 0	0.0 0	
KTEV-LD D19 LD APP	4.0 15		2.0 15
KAUT-TV D19 DT LIC	112.4 908	112.4 908	111.4 908
KGBS-CD D19 DC CP	13.1 49	13.1 49	13.1 49
KTXH D19 DT LIC	29.3 38	29.3 38	29.3 38
KFXK-TV D20 DT LIC	31.1 679	31.1 679	30.1 679

Table 1 KTEV-LD TVStudy Analysis of Proposal
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Interference to BLCDDT20121115ABM LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDDT20121115ABM	
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	287.1 km
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	275.7
	KAUT-TV	D19	DT	LIC	OKLAHOMA CITY, OK	BLANK0000121785	339.8
	KTXH	D19	DT	LIC	HOUSTON, TX	BLANK0000166189	358.9
	KFXK-TV	D20	DT	LIC	LONGVIEW, TX	BLANK0000071623	191.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
45657.6	6,909,682	45290.7	6,906,435	45117.8	6,904,810	45115.8 6,904,795	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KTEV-LD N19+ TX LIC		0.0	0	0.0	0		
KTEV-LD D19 LD APP		4.0	15		2.0	15	
KAUT-TV D19 DT LIC		112.4	908	112.4	908	111.4	908
KTXH D19 DT LIC		29.3	38	29.3	38	29.3	38
KFXK-TV D20 DT LIC		31.1	679	31.1	679	30.1	679

Interference to BLCDDT20121115ABM LIC scenario 3

Desired:	Call KTVT	Chan D19	Svc DT	Status LIC	City, State FORT WORTH, TX	File Number BLCDDT20121115ABM	Distance		
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	287.1 km		
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	275.7		
	KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000127590	339.8		
	KGBS-CD	D19	DC	CP	AUSTIN, TX	BLANK0000127539	259.8		
	KTXH	D19	DT	LIC	HOUSTON, TX	BLANK0000166189	358.9		
	KFXK-TV	D20	DT	LIC	LONGVIEW, TX	BLANK0000071623	191.1		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
45657.6	6,909,682	45290.7	6,906,435	45088.8	6,904,515	45086.8	6,904,500	0.00	0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
KTEV-LD N19+ TX LIC				0.0	0	0.0	0		
KTEV-LD D19 LD APP				4.0	15		2.0	15	
KAUT-TV D19 DT CP				128.3	1,154	128.3	1,154	127.3 1,154	
KGBS-CD D19 DC CP				13.1	49	13.1	49	13.1 49	
KTXH D19 DT LIC				29.3	38	29.3	38	29.3 38	
KFXK-TV D20 DT LIC				31.1	679	31.1	679	30.1 679	

Interference to BLCDDT20121115ABM LIC scenario 4

Desired:	Call KTVT	Chan D19	Svc DT	Status LIC	City, State FORT WORTH, TX	File Number BLCDDT20121115ABM	Distance			
Undesireds:	KTEV-LD	N19+	TX	LIC	TEXARKANA, AR	BLTTL20061211AAB	287.1 km			
	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	275.7			
	KAUT-TV	D19	DT	CP	OKLAHOMA CITY, OK	BLANK0000127590	339.8			
	KTXH	D19	DT	LIC	HOUSTON, TX	BLANK0000166189	358.9			
	KFXK-TV	D20	DT	LIC	LONGVIEW, TX	BLANK0000071623	191.1			
Service area		Terrain-limited			IX-free, before	IX-free, after	Percent New IX			
45657.6	6,909,682	45290.7	6,906,435		45101.9	6,904,564	45099.9	6,904,549	0.00	0.00
Undesired				Total IX	Unique IX, before		Unique IX, after			
KTEV-LD N19+ TX LIC				0.0	0		0.0		0	
KTEV-LD D19 LD APP				4.0	15		2.0		15	
KAUT-TV D19 DT CP				128.3	1,154		128.3		1,154	
KTXH D19 DT LIC				29.3	38		29.3		38	
KFXK-TV D20 DT LIC				31.1	679		31.1		679	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTEV-LD	D19	LD	APP	TEXARKANA, AR	KTEV-LD 1220983 370ft	

Table 1 KTEV-LD TVStudy Analysis of Proposal
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Undesireds:	K18NM-D	D18	LD	CP	TEXARKANA, AR	BLANK0000071802	26.2 km
	KARD	D19	DT	LIC	WEST MONROE, LA	BLANK0000063972	235.0
	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	275.7

Service area		Terrain-limited		IX-free		Percent IX	
6762.8	169,683	6753.8	169,678	6683.4	169,449	1.04	0.13

Undesired		Total IX		Unique IX		Prcnt Unique IX	
K18NM-D	D18 LD CP	53.5	200	53.5	200	0.79	0.12
KARD	D19 DT LIC	11.0	27	6.0	14	0.09	0.01
KTVT	D19 DT LIC	11.0	15	6.0	2	0.09	0.00

**Channel and
Facility
Information**

Section	Question	Response
Facility ID	58984	
State	Arkansas	
City	TEXARKANA	
LPD Channel	19	

Primary station proposed to be rebroadcast:

Facility Id	Call Sign	City	State
58984	KTEV-LP	TEXARKANA	AR

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1220983
Coordinates (NAD83)	Latitude	33° 22' 39.2" N+
	Longitude	094° 10' 30.8" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	123.4 meters
	Support Structure Height	121.9 meters
	Ground Elevation (AMSL)	93.9 meters
Antenna Data	Height of Radiation Center Above Ground Level	112.8 meters
	Height of Radiation Center Above Mean Sea Level	206.7 meters
	Effective Radiated Power	15 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	
Antenna Manufacturer and Model	Manufacturer:	Dielectric
	Model	TLP-12A/VP-R
	Rotation	
	Electrical Beam Tilt	0.5
	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