



MARSAND, INC.

Matthew A. Sanderford, Jr., P.E.

ENGINEERING STATEMENT

In support of a request for

Minor Modification of a Licensed Facility for DTV Application

KOZK (DT) Ch 35

Springfield, MO

Facility ID: 51102

PURPOSE

MARSAND, INC. has been retained by The Board of Governors of Missouri State University, the "applicant", to prepare this engineering statement in support of a request for a minor modification of a Licensed Facility for DTV Application. The applicant proposes to remove the existing transmission line and install a new broadband transmission line and transmitter in order to continue to provide interim service on the licensed Ch 23 and establish post-incentive auction service on its reassigned new channel, Ch 16.

The proposed DTV facility will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice. It will operate post-incentive auction facilities that do not expand the noise-limited service contour in any direction beyond that established by the post-incentive auction channel reassignment public notice and that match or reduce by no more than five percent with respect to predicted population from those defined in the post-incentive auction channel reassignment public notice. The antenna structure to be used by this facility has been registered by the Commission and will not require reregistration.

DISCUSSION

The applicant currently is licensed and operating on Ch 23 (DTV) (BLEDT-20030911AAS). The station has been reassigned Ch 16 with 84.7 kW ERP at 617 m HAAT. The existing antenna is a Dielectric TUF-04-16/64H-1 which is wideband and will support both channels 16 and 23.

The existing transmission is 6-1/8" rigid coaxial line which is composed of 20 ft. sections and will accommodate Ch 23 but is prohibited for Ch 16. Replacing this line with new broadband transmission line will allow interim service on Ch 23 on its licensed power of 100 kW ERP until the transition phase deadline: November 30, 2018, phase 1.

The proposed facility would establish service on the reassigned channel at an ERP of 95 kW and HAAT of 616 m. The proposed service area will remain within the FCC baseline +1% and still maintain a service area population of more than 95% of baseline. The study results of this proposal utilizing the FCC TVStudy v2.2.2 software are included as **Exhibit 1**.

FCC OET Bulletin No. 65 "Evaluating Compliance With FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, and has been found to comply with the limits set forth in Section 1.1310 of the Rules as shown in **Exhibit 2**. The total exposure as defined by the ANSI standard computations for occupational/controlled area is 0.01 % of the maximum. The total exposure as defined by the ANSI standard computations for general population/uncontrolled area is 0.02 % of the maximum.

Proposed coverage contour shown in **Exhibit 3**.

Proposed RFS antenna technical information is shown in **Exhibit 4**.

CONCLUSION

It is respectfully requested that the Commission grant this request for minor modification for these facilities as specified herein.



MARSAND, INC.

Matthew A. Sanderford, Jr., P.E.

DECLARATION

Matthew A. Sanderford, Jr., P.E., declares and states that he is a graduate Electrical Engineer with a Bachelor of Science Degree in Electrical Engineering from the University of Texas at El Paso, a Licensed Professional Engineer in the State of Texas, and his qualifications are known to the Federal Communications Commission, and that he is President of MARSAND, INC., a Registered Professional Engineering firm in the State of Texas, and that firm has been retained by The Board of Governors of Missouri State University, to perform the engineering support as contained in this report.

All facts contained herein are true of his own knowledge except where stated to be on information or belief provided by others, and as to those facts, he believes them to be true.

I declare under penalty of perjury that the foregoing is true and correct.



Matthew A. Sanderford, Jr., P.E.
President - MARSAND, INC.

Executed this 4th of July, 2017
State of Texas

EXHIBIT 1

tvstudy v2.2.2
Database: localhost, Study: KOZK_PROPOSED04, Model: Longley-Rice
Start: 2017.07.04 14:50:15

Study created: 2017.07.04 14:49:49

Study build station data: LMS TV 2017-07-01 (9)

Proposal: KOZK D16 DT BL SPRINGFIELD, MO
File number: KOZK_PROPOSED04
Facility ID: 51102
Station data: User record
Record ID: 79
Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	163.8 km
KPOB-TV	D15	DT	LIC	POPLAR BLUFF, MO	BLCDT20090623ABU	224.9
KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	162.1
KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	311.1
WRSF-TV	D16	DT	BL	SPRINGFIELD, IL	DTVBL62009	421.7
KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	332.1
KOCM	D16	DT	CP	NORMAN, OK	BLANK0000025026	442.8
KOCM	D16	DT	BL	NORMAN, OK	DTVBL84225	442.8
KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	275.4
KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	275.3
KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDT20110722ADS	181.6
KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	143.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16
Latitude: 37 10 11.00 N (NAD83)
Longitude: 92 56 31.00 W
Height AMSL: 1064.0 m
HAAT: 616.0 m
Peak ERP: 95.0 kW
Antenna: DIE-TUF-04-16/64H-1 (ID 44294) 0.0 deg

38.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	95.0 kW	617.5 m	104.4 km
45.0	95.0	603.2	103.8
90.0	95.0	572.5	102.2
135.0	95.0	610.4	104.1
180.0	95.0	628.5	104.9
225.0	95.0	619.6	104.5
270.0	95.0	636.3	105.2
315.0	95.0	636.7	105.2

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

Distance to Canadian border: 993.4 km

Distance to Mexican border: 1135.4 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 313.1 degrees Distance: 630.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 290.9 degrees Distance: 1114.5 km

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No land mobile station failures found

Study cell size: 2.00 km
Profile point spacing: 1.00 km

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

Interference to BLCDT20020904AAX LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	163.8 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	163.8
	KHMF-CD	D14	DC	LIC	BENTONVILLE, AR	BLANK0000001534	42.9
	KGEB	D14	DT	BL	TULSA, OK	DTVBL24485	168.1
	KSNW	D15	DT	BL	WICHITA, KS	DTVBL72358	362.2
	KPOB-TV	D15	DT	LIC	POPLAR BLUFF, MO	BLCDT20090623ABU	336.4
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	309.4
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	310.6
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	143.2

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
21995.4	765,360	20131.3	702,984	19691.1	678,820	19683.2 678,763	0.04 0.01

Undesired			Total IX	Unique IX, before		Unique IX, after	
KOZK D16 DT BL	59.7		526	31.9		267	
KOZK D16 DT BL	75.7		669			39.8	324
KSNW D15 DT BL	19.9		182	4.0		4.0	8
KMOS-TV D15 DT LIC	183.3		1,917	151.4		143.5	1,546
KTBO-TV D15 DT LIC	225.0		21,998	209.1		209.1	21,824

Interference to BLCDT20020904AAX LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	163.8 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	163.8
	KHMF-CD	D14	DC	LIC	BENTONVILLE, AR	BLANK0000001534	42.9
	KGEB	D14	DT	BL	TULSA, OK	DTVBL24485	168.1
	KSNW	D15	DT	BL	WICHITA, KS	DTVBL72358	362.2
	KPOB-TV	D15	DT	LIC	POPLAR BLUFF, MO	BLCDT20090623ABU	336.4
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	309.4
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	310.6
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	143.2

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
21995.4	765,360	20131.3	702,984	19691.1	678,820	19683.2 678,763	0.04 0.01

Undesired			Total IX	Unique IX, before		Unique IX, after	
KOZK D16 DT BL	59.7		526	31.9		267	
KOZK D16 DT BL	75.7		669			39.8	324
KSNW D15 DT BL	19.9		182	4.0		4.0	8
KMOS-TV D15 DT LIC	183.3		1,917	151.4		143.5	1,546
KTBO-TV D15 DT LIC	225.0		21,998	209.1		209.1	21,824

Interference to BLCDT20020904AAX LIC, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	163.8 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	163.8
	KHMF-CD	D14	DC	LIC	BENTONVILLE, AR	BLANK0000001534	42.9

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KGEB	D14	DT	BL	TULSA, OK	DTVBL24485	168.1
KSNW	D15	DT	BL	WICHITA, KS	DTVBL72358	362.2
KPOB-TV	D15	DT	LIC	POPLAR BLUFF, MO	BLCDDT20090623ABU	336.4
KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	309.4
KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDDT20111028AAX	310.6
KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	143.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21995.4 765,360	20131.3 702,984	19691.1 678,820	19683.2 678,763	0.04 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL 59.7	526	31.9 267	
KOZK D16 DT BL 75.7	669		39.8 324
KSNW D15 DT BL 19.9	182	4.0 8	4.0 8
KMOS-TV D15 DT LIC 183.3	1,917	151.4 1,632	143.5 1,546
KTBO-TV D15 DT LIC 225.0	21,998	209.1 21,824	209.1 21,824

Interference to BLCDDT20020904AAX LIC, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDDT20020904AAX	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	163.8 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	163.8
	KHMF-CD	D14	DC	LIC	BENTONVILLE, AR	BLANK0000001534	42.9
	KGEB	D14	DT	BL	TULSA, OK	DTVBL24485	168.1
	KSNW	D15	DT	BL	WICHITA, KS	DTVBL72358	362.2
	KPOB-TV	D15	DT	LIC	POPLAR BLUFF, MO	BLCDDT20090623ABU	336.4
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	309.4
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDDT20111028AAX	310.6
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	143.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21995.4 765,360	20131.3 702,984	19691.1 678,820	19683.2 678,763	0.04 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL 59.7	526	31.9 267	
KOZK D16 DT BL 75.7	669		39.8 324
KSNW D15 DT BL 19.9	182	4.0 8	4.0 8
KMOS-TV D15 DT LIC 183.3	1,917	151.4 1,632	143.5 1,546
KTBO-TV D15 DT LIC 225.0	21,998	209.1 21,824	209.1 21,824

Interference to BLCDDT20090623ABU LIC, scenario 1
Proposal causes no interference.-----
Interference to BLCDDT20090623ABU LIC, scenario 2
Proposal causes no interference.-----
Interference to BLCDDT20090623ABU LIC, scenario 3
Proposal causes no interference.-----
Interference to BLCDDT20090623ABU LIC, scenario 4
Proposal causes no interference.-----
Interference to BLEDT20030108ABK LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	162.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	162.1
	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDDT20061228AAC	203.9
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDDT20020904AAX	309.4
	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	295.9
	W15BU-D	D15	DC	LIC	JOHNSON CITY, IL	BLDTA20090804AAF	354.6
	WICS	D15	DT	BL	SPRINGFIELD, IL	DTVBL25686	321.2

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KPOB-TV	D15	DT	LIC	POPLAR BLUFF, MO	BLCDT20090623ABU	293.8
KFXL-TV	D15	DT	LIC	LINCOLN, NE	BLANK0000001045	408.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
41407.6	804,745	41184.8	803,129	40910.3	799,596	40878.5	797,781	0.08 0.23

Undesired		Total IX		Unique IX, before		Unique IX, after	
KOZK D16 DT BL	150.9	2,400		127.1	2,324		
KOZK D16 DT BL	182.7	4,215				158.9	4,139
KHOG-TV D15 DT LIC	67.4	272		43.6	196	43.6	196
KYOU-TV D15 DT LIC	23.9	717		11.9	656	11.9	656
WICS D15 DT BL	68.0	281		56.0	220	56.0	220

Interference to BLEDT20030108ABK LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	162.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	162.1
	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDT20061228AAC	203.9
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	309.4
	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	295.9
	W15BU-D	D15	DC	LIC	JOHNSON CITY, IL	BLDTA20090804AAF	354.6
	WICS	D15	DT	BL	SPRINGFIELD, IL	DTVBL25686	321.2
	KPOB-TV	D15	DT	LIC	POPLAR BLUFF, MO	BLCDT20090623ABU	293.8
	KFXL-TV	D15	DT	LIC	LINCOLN, NE	BLANK0000001045	408.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
41407.6	804,745	41184.8	803,129	40910.3	799,596	40878.5	797,781	0.08 0.23

Undesired		Total IX		Unique IX, before		Unique IX, after	
KOZK D16 DT BL	150.9	2,400		127.1	2,324		
KOZK D16 DT BL	182.7	4,215				158.9	4,139
KHOG-TV D15 DT LIC	67.4	272		43.6	196	43.6	196
KYOU-TV D15 DT LIC	23.9	717		11.9	656	11.9	656
WICS D15 DT BL	68.0	281		56.0	220	56.0	220

Interference to DTVBL608 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	311.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	311.1
	KSHV-TV	D16	DT	BL	SHREVEPORT, LA	DTVBL73706	206.7
	WLOV-TV	D16	DT	LIC	WEST POINT, MS	BLCDT20070405ABC	370.1
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	301.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
15262.1	303,728	14603.0	301,090	14443.7	298,206	14439.7	298,206	0.03 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
KOZK D16 DT BL	27.8	0		23.8	0		
KOZK D16 DT BL	31.7	0				27.8	0
KSHV-TV D16 DT BL	135.6	2,884		131.6	2,884	131.6	2,884

Interference to DTVBL608 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	311.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	311.1
	KSHV-TV	D16	DT	BL	SHREVEPORT, LA	DTVBL73706	206.7
	WLOV-TV	D16	DT	LIC	WEST POINT, MS	BLCDT20070405ABC	370.1
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	301.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
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15262.1	303,728	14603.0	301,090	14443.7	298,206	14439.7	298,206	0.03	0.00
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Undesired		Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL	27.8	0	23.8	0
KOZK D16 DT BL	31.7	0		27.8
KSHV-TV D16 DT BL	135.6	2,884	131.6	2,884

Interference to DTVBL608 BL, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	311.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	311.1
	KSHV-TV	D16	DT	BL	SHREVEPORT, LA	DTVBL73706	206.7
	WLOV-TV	D16	DT	LIC	WEST POINT, MS	BLCDT20070405ABC	370.1
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	301.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
15262.1	303,728	14603.0	301,090	14443.7
		298,206	14439.7	298,206
			0.03	0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL	27.8	0	23.8	0
KOZK D16 DT BL	31.7	0		27.8
KSHV-TV D16 DT BL	135.6	2,884	131.6	2,884

Interference to DTVBL608 BL, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	311.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	311.1
	KSHV-TV	D16	DT	BL	SHREVEPORT, LA	DTVBL73706	206.7
	WLOV-TV	D16	DT	LIC	WEST POINT, MS	BLCDT20070405ABC	370.1
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	301.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
15262.1	303,728	14603.0	301,090	14443.7
		298,206	14439.7	298,206
			0.03	0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL	27.8	0	23.8	0
KOZK D16 DT BL	31.7	0		27.8
KSHV-TV D16 DT BL	135.6	2,884	131.6	2,884

Interference to DTVBL62009 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL62009 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL62009 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL62009 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL49397 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	332.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	332.1
	KDSM-TV	D16	DT	LIC	DES MOINES, IA	BLCDT20110609ABE	367.5

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KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	245.6
KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	334.7
KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDDT20021120AAP	127.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20319.2 567,958	20255.4 567,695	19975.8 565,091	19975.8 565,091	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL 4.0	45	0.0	0
KOZK D16 DT BL 4.0	45		0
KOOD D16 DT LIC 259.7	2,271	183.8	503
KAAS-TV D17 DT LIC 91.9	2,056	20.0	333

Interference to DTVBL49397 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	332.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	332.1
	KDSM-TV	D16	DT	LIC	DES MOINES, IA	BLCDDT20110609ABE	367.5
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	245.6
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	334.7
	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDDT20021120AAP	127.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20319.2 567,958	20255.4 567,695	19975.8 565,091	19975.8 565,091	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL 4.0	45	0.0	0
KOZK D16 DT BL 4.0	45		0
KOOD D16 DT LIC 259.7	2,271	183.8	503
KAAS-TV D17 DT LIC 91.9	2,056	20.0	333

Interference to DTVBL49397 BL, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	332.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	332.1
	KDSM-TV	D16	DT	LIC	DES MOINES, IA	BLCDDT20110609ABE	367.5
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	245.6
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	334.7
	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDDT20021120AAP	127.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20319.2 567,958	20255.4 567,695	19975.8 565,091	19975.8 565,091	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL 4.0	45	0.0	0
KOZK D16 DT BL 4.0	45		0
KOOD D16 DT LIC 259.7	2,271	183.8	503
KAAS-TV D17 DT LIC 91.9	2,056	20.0	333

Interference to DTVBL49397 BL, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	332.1 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	332.1
	KDSM-TV	D16	DT	LIC	DES MOINES, IA	BLCDDT20110609ABE	367.5
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	245.6
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	334.7
	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDDT20021120AAP	127.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20319.2 567,958	20255.4 567,695	19975.8 565,091	19975.8 565,091	0.00 0.00

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Undesired		Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL	4.0	45	0.0	0
KOZK D16 DT BL	4.0	45		0.0
KOOD D16 DT LIC	259.7	2,271	183.8	503
KAAS-TV D17 DT LIC	91.9	2,056	20.0	333

Interference to BLANK0000025026 CP, scenario 1
Proposal causes no interference.

Interference to BLANK0000025026 CP, scenario 2
Proposal causes no interference.

Interference to DTVBL84225 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL84225 BL, scenario 2
Proposal causes no interference.

Interference to BLANK0000025172 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	275.4 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	275.4
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	143.2
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	170.5
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	301.0
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	334.7
	KOCM	D16	DT	CP	NORMAN, OK	BLANK0000025026	170.1
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	154.2
	KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	31.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
18885.8 1,092,549	18833.4 1,092,148	18439.9 1,085,973	18436.0 1,085,973	0.02 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL	28.0	2,555	16.0	118
KOZK D16 DT BL	32.0	2,555		20.0
KOCM D16 DT CP	317.6	4,532	305.5	2,095
KUTU-CD D17 DC BL	59.9	1,525	59.9	1,525

Interference to BLANK0000025172 CP, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	275.4 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	275.4
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	143.2
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	170.5
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	301.0
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	334.7
	KOCM	D16	DT	BL	NORMAN, OK	DTVBL84225	170.1
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	154.2
	KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	31.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
18885.8 1,092,549	18833.4 1,092,148	18439.9 1,085,973	18436.0 1,085,973	0.02 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
KOZK D16 DT BL	28.0	2,555	16.0	118
KOZK D16 DT BL	32.0	2,555		20.0
KOCM D16 DT BL	317.6	4,532	305.5	2,095
KUTU-CD D17 DC BL	59.9	1,525	59.9	1,525

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Interference to DTVBL37099 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	275.4 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	275.3
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	143.2
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	170.5
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	301.0
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	334.7
	KOCM	D16	DT	CP	NORMAN, OK	BLANK0000025026	170.1
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	154.2
	KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	31.7

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
19302.1	1,104,914	19213.5	1,101,682	18811.9 1,095,986	0.02 0.00
Undesired		Total IX	Unique IX, before	Unique IX, after	
KOZK D16 DT BL	24.1	171	16.0	131	
KOZK D16 DT BL	28.0	175			
KOZK D16 DT BL			20.0	135	
KOCM D16 DT CP	337.7	4,534	329.7	4,494	
KOCM D16 DT CP			329.7	4,494	
KUTU-CD D17 DC BL	47.9	1,031	47.9	1,031	
KUTU-CD D17 DC BL			47.9	1,031	

Interference to DTVBL37099 BL, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	275.4 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	275.3
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	143.2
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	170.5
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	301.0
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	334.7
	KOCM	D16	DT	BL	NORMAN, OK	DTVBL84225	170.1
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	154.2
	KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	31.7

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
19302.1	1,104,914	19213.5	1,101,682	18811.9 1,095,986	0.02 0.00
Undesired		Total IX	Unique IX, before	Unique IX, after	
KOZK D16 DT BL	24.1	171	16.0	131	
KOZK D16 DT BL	28.0	175			
KOZK D16 DT BL			20.0	135	
KOCM D16 DT BL	337.7	4,534	329.7	4,494	
KOCM D16 DT BL			329.7	4,494	
KUTU-CD D17 DC BL	47.9	1,031	47.9	1,031	
KUTU-CD D17 DC BL			47.9	1,031	

Interference to BLCDT20110722ADS LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20110722ADS LIC, scenario 2
Proposal causes no interference.

Interference to BLCDT20110722ADS LIC, scenario 3
Proposal causes no interference.

Interference to BLCDT20110722ADS LIC, scenario 4
Proposal causes no interference.

Interference to DTVBL67766 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	

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Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	143.3 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	143.3
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	154.2
	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDDT20021120AAP	335.0
	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDDT20110722ADS	257.6
	KTEN	D17	DT	BL	ADA, OK	DTVBL35666	352.0
	KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	164.3
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDDT20060530AIM	142.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
21827.2	500,881	21779.3	500,469	21575.8	496,694	21571.8	496,597	0.02 0.02

Undesired		Total IX		Unique IX, before		Unique IX, after
KOZK D16 DT BL	64.0	754	40.0	535		
KOZK D16 DT BL	68.0	851			44.0	632
KMIZ D17 DT LIC	39.9	260	16.0	41	16.0	41
KTEN D17 DT BL	12.0	87	0.0	0	0.0	0
KUTU-CD D17 DC BL	99.6	1,229	87.7	1,142	87.7	1,142
KFSM-TV D18 DT LIC	23.9	1,751	23.9	1,751	23.9	1,751

Interference to DTVBL67766 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	

Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	143.3 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	143.3
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	154.2
	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDDT20021120AAP	335.0
	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDDT20110722ADS	257.6
	KTEN	D17	DT	BL	ADA, OK	DTVBL35666	352.0
	KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	164.3
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDDT20060530AIM	142.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
21827.2	500,881	21779.3	500,469	21575.8	496,694	21571.8	496,597	0.02 0.02

Undesired		Total IX		Unique IX, before		Unique IX, after
KOZK D16 DT BL	64.0	754	40.0	535		
KOZK D16 DT BL	68.0	851			44.0	632
KMIZ D17 DT LIC	39.9	260	16.0	41	16.0	41
KTEN D17 DT BL	12.0	87	0.0	0	0.0	0
KUTU-CD D17 DC BL	99.6	1,229	87.7	1,142	87.7	1,142
KFSM-TV D18 DT LIC	23.9	1,751	23.9	1,751	23.9	1,751

Interference to DTVBL67766 BL, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	

Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	143.3 km
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	143.3
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	154.2
	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDDT20021120AAP	335.0
	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDDT20110722ADS	257.6
	KTEN	D17	DT	BL	ADA, OK	DTVBL35666	352.0
	KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	164.3
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDDT20060530AIM	142.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
21827.2	500,881	21779.3	500,469	21575.8	496,694	21571.8	496,597	0.02 0.02

Undesired		Total IX		Unique IX, before		Unique IX, after
KOZK D16 DT BL	64.0	754	40.0	535		
KOZK D16 DT BL	68.0	851			44.0	632
KMIZ D17 DT LIC	39.9	260	16.0	41	16.0	41
KTEN D17 DT BL	12.0	87	0.0	0	0.0	0
KUTU-CD D17 DC BL	99.6	1,229	87.7	1,142	87.7	1,142
KFSM-TV D18 DT LIC	23.9	1,751	23.9	1,751	23.9	1,751

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Interference to DTVBL67766 BL, scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766				
Undesireds:	KOZK	D16	DT	BL	SPRINGFIELD, MO	DTVBL51102	143.3 km			
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	143.3			
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	154.2			
	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	335.0			
	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDT20110722ADS	257.6			
	KTEN	D17	DT	BL	ADA, OK	DTVBL35666	352.0			
	KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	164.3			
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	142.9			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
21827.2	500,881	21779.3	500,469	21575.8	496,694	21571.8	496,597	0.02	0.02	
Undesired				Total IX	Unique IX, before		Unique IX, after			
KOZK	D16	DT	BL	64.0	754	40.0	535			
KOZK	D16	DT	BL	68.0	851			44.0	632	
KMIZ	D17	DT	LIC	39.9	260	16.0	41	16.0	41	
KTEN	D17	DT	BL	12.0	87	0.0	0	0.0	0	
KUTU-CD	D17	DC	BL	99.6	1,229	87.7	1,142	87.7	1,142	
KFSM-TV	D18	DT	LIC	23.9	1,751	23.9	1,751	23.9	1,751	

Interference to proposal, scenario 1
0.64% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	
Undesireds:	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	163.8 km
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	162.1
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	311.1
	KTCA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	332.1
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	275.4
	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDT20110722ADS	181.6
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	143.3
Service area		Terrain-limited		IX-free		Percent IX	
34183.3		852,699		33749.3		838,925	
						33319.8	
						833,591	
						1.27	
						0.64	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KMOS-TV D15 DT LIC		221.5		3,981		0.66	
KTCA-TV D16 DT BL		7.9		23		0.02	
KSNF D17 DT BL		200.1		1,330		0.59	

Interference to proposal, scenario 2
0.64% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	
Undesireds:	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	163.8 km
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	162.1
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	311.1
	KTCA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	332.1
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	275.3
	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDT20110722ADS	181.6
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	143.3
Service area		Terrain-limited		IX-free		Percent IX	
34183.3		852,699		33749.3		838,925	
						33319.8	
						833,591	
						1.27	
						0.64	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KMOS-TV D15 DT LIC		221.5		3,981		0.66	
KTCA-TV D16 DT BL		7.9		23		0.02	
KSNF D17 DT BL		200.1		1,330		0.59	

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Interference to proposal, scenario 3
0.64% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	
Undesireds:	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDDT20020904AAX	163.8 km
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	162.1
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	311.1
	KTCA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	332.1
	KWHB	D16	DT	CP	TULSA, OK	BLANK0000025172	275.4
	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDDT20110722ADS	181.6
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	143.3

	Service area		Terrain-limited		IX-free		Percent IX
34183.3	852,699	33749.3	838,925	33319.8	833,591	1.27	0.64

Undesired			Total IX		Unique IX	Prcnt Unique IX	
KMOS-TV	D15	DT LIC	221.5	3,981	221.5	3,981	0.66 0.47
KTCA-TV	D16	DT BL	7.9	23	7.9	23	0.02 0.00
KSNF	D17	DT BL	200.1	1,330	200.1	1,330	0.59 0.16

Interference to proposal, scenario 4
0.64% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KOZK	D16	DT	BL	SPRINGFIELD, MO	KOZK_PROPOSED04	
Undesireds:	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDDT20020904AAX	163.8 km
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	162.1
	KVTH-DT	D16	DT	BL	HOT SPRINGS, AR	DTVBL608	311.1
	KTCA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	332.1
	KWHB	D16	DT	BL	TULSA, OK	DTVBL37099	275.3
	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDDT20110722ADS	181.6
	KSNF	D17	DT	BL	JOPLIN, MO	DTVBL67766	143.3

	Service area		Terrain-limited		IX-free		Percent IX
34183.3	852,699	33749.3	838,925	33319.8	833,591	1.27	0.64

Undesired			Total IX		Unique IX	Prcnt Unique IX	
KMOS-TV	D15	DT LIC	221.5	3,981	221.5	3,981	0.66 0.47
KTCA-TV	D16	DT BL	7.9	23	7.9	23	0.02 0.00
KSNF	D17	DT BL	200.1	1,330	200.1	1,330	0.59 0.16

EXHIBIT 2

ENVIRONMENTAL STATEMENT

The proposed facility complies in full with the requirements of 47 C.F.R. Section 1.1306 and will have no significant environmental impact. Population is very scattered and sparse near the immediate location of the proposed site. The proposed site does not involve any of the conditions specified in Section 1.1307(a)(1) - (6) of the Rules.

The **KOZK** facility has been studied in accordance with the procedures set forth in the FCC OET Bulletin No. 65 "Evaluating Compliance With FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, and has been found to comply with the limits set forth in Section 1.1310 of the Rules. This determination has been based upon calculations with the total radiated power from all TV & FM co-located broadcast emitters. The total exposure as defined by the ANSI standard computations for occupational/controlled area is **0.01 %** of the maximum. The total exposure as defined by the ANSI standard computations for general population/uncontrolled area is **0.03 %** of the maximum. The proposed facility is in compliance with the Commission's guidelines.

Multiple Use FM/TV Tower						
Location:		KOZK, Springfield, MO				7/4/2017
Channel Frequency Type	Call Letters	Service	ERP (W) H+V	Ant Center of Radiation AG (m)	% of ANSI/FCC Limit (6min)	% of ANSI/FCC Limit (30 min)
16	KOZK	TV UHF#1	95,000	587.00	0.01	0.03
Total %					0.01	0.03
IN COMPLIANCE						

The Board of Governors of Missouri State University (Applicant) agrees to maintain full compliance with the safety precautions to workers on the tower (controlled) and the general public (uncontrolled) by reducing or removing radiated power during the time of construction or maintenance on or near the antenna. The Applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from Radiofrequency Electromagnetic exposure in excess of FCC guidelines

The Applicant is believed to be in full compliance with the Environmental Impact and Commission Rules.

EXHIBIT 3

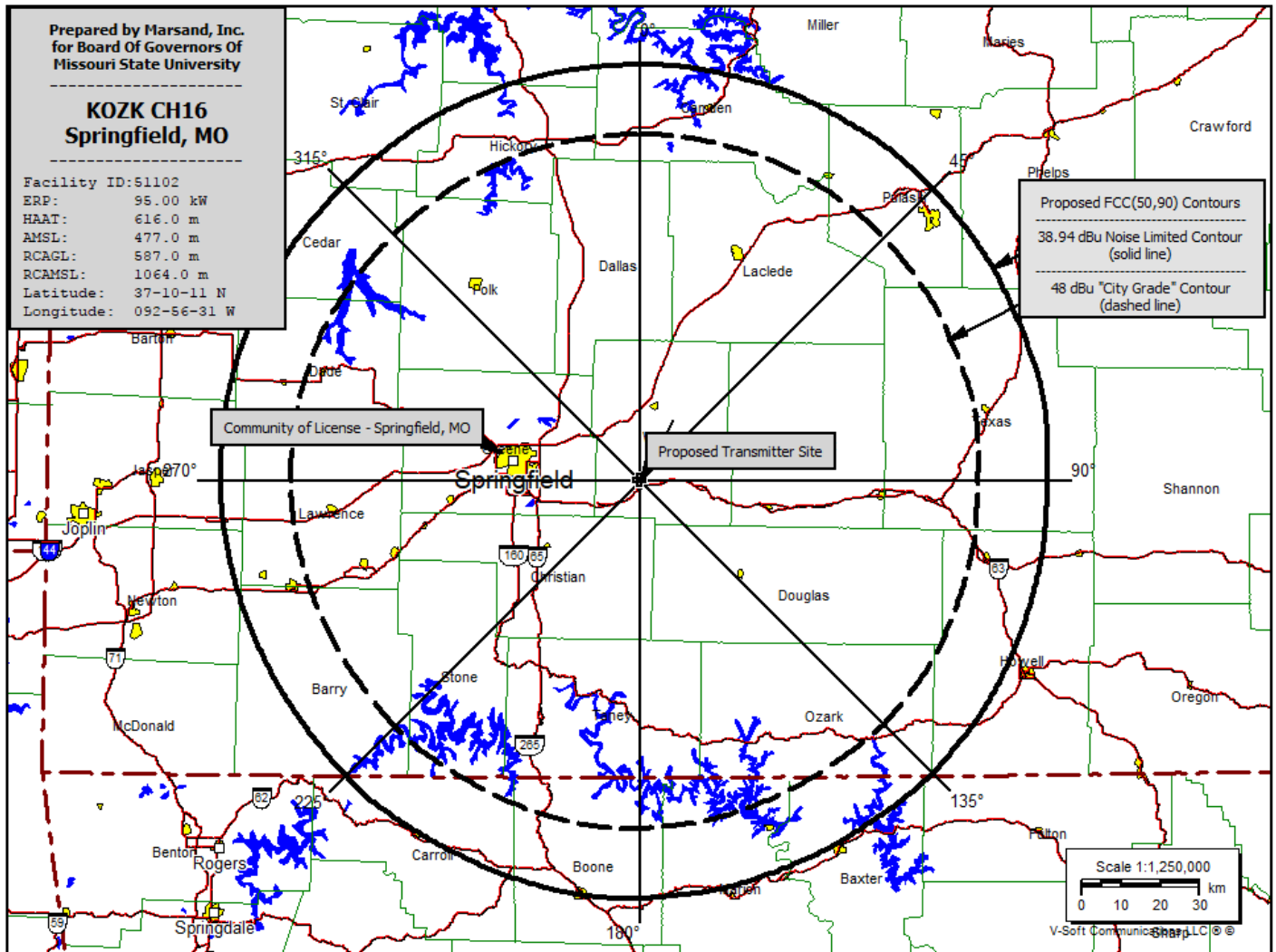
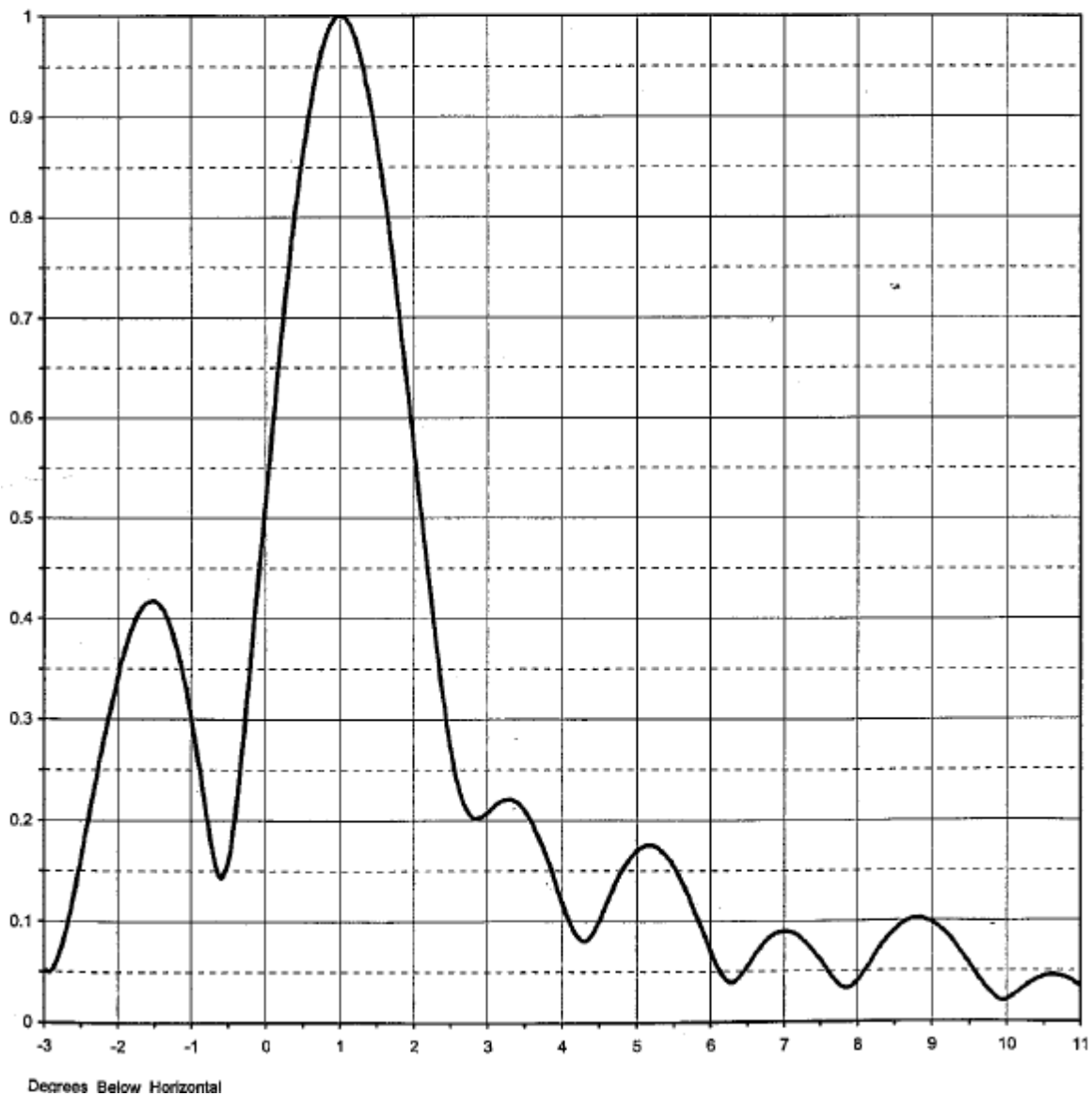


EXHIBIT 4

Proposal Number	DCA-10011	Revision:	1
Date	21-Mar-03		
Call Letters	KOZK-DT	Channel	23
Location	Springfield, MO		
Customer	Southwest MO State		
Antenna Type	TUF-O4-16/64H-1-T		

ELEVATION PATTERN

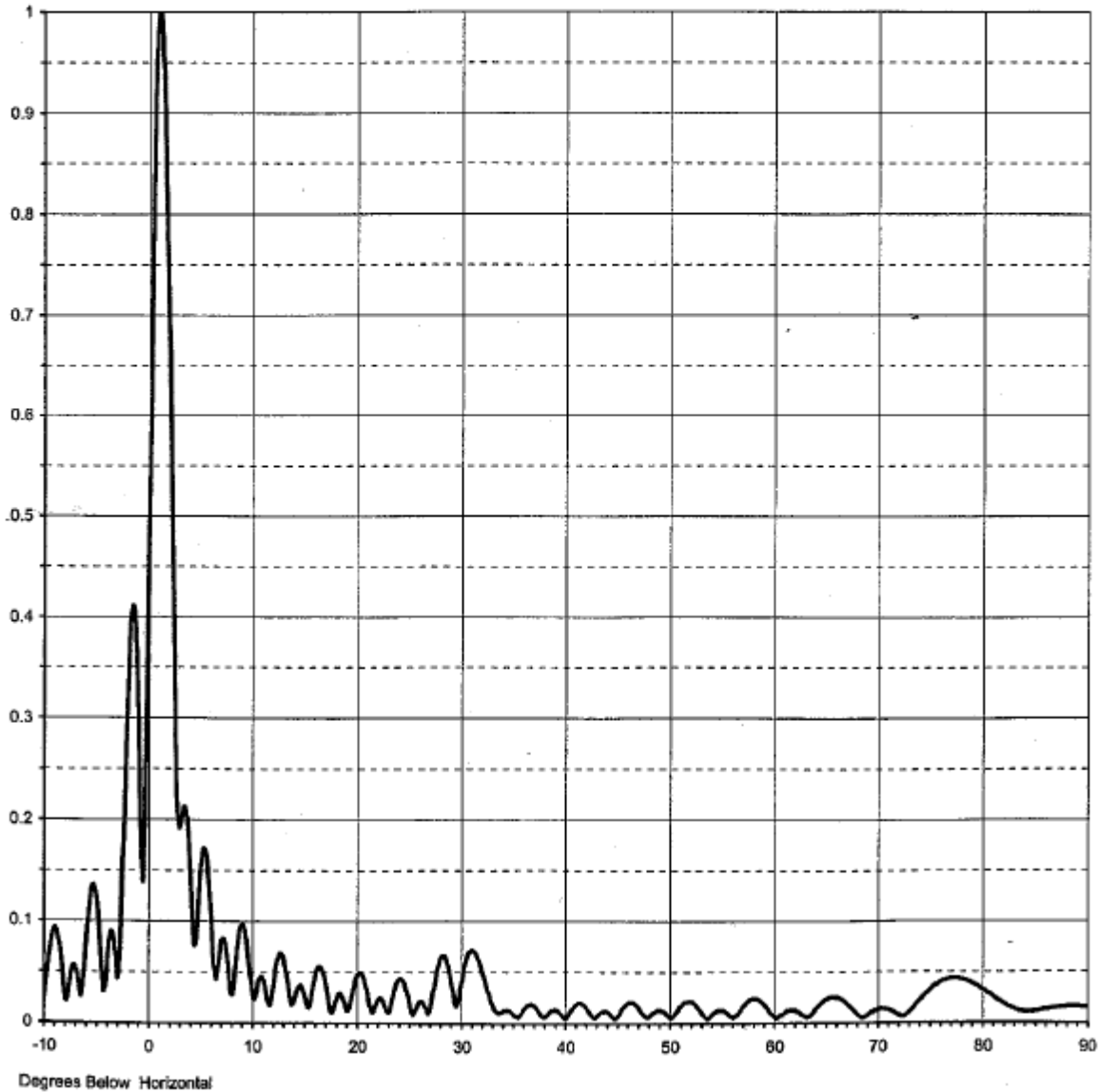
RMS Gain at Main Lobe	30.88 (14.90 dB)	Beam Tilt	1.00 deg
RMS Gain at Horizontal	8.30 (9.19 dB)	Frequency	527.00 MHz
Calculated / Measured	Calculated	Drawing #	16U309100



Proposal Number	DCA-10011	Revision:	1
Date	21-Mar-03		
Call Letters	KOZK-DT	Channel	23
Location	Springfield, MO		
Customer	Southwest MO State		
Antenna Type	TUF-04-16/64H-1-T		

ELEVATION PATTERN

RMS Gain at Main Lobe	30.88 (14.90 dB)	Beam Tilt	1.00 deg
RMS Gain at Horizontal	8.30 (9.19 dB)	Frequency	527.00 MHz
Calculated / Measured	Calculated	Drawing #	16U309100-90



Proposal Number **DCA-10011** Revision: **1**
 Date **21-Mar-03**
 Call Letters **KOZK-DT** Channel **23**
 Location **Springfield, MO**
 Customer **Southwest MO State**
 Antenna Type **TUF-O4-16/64H-1-T**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: 16U309100-90

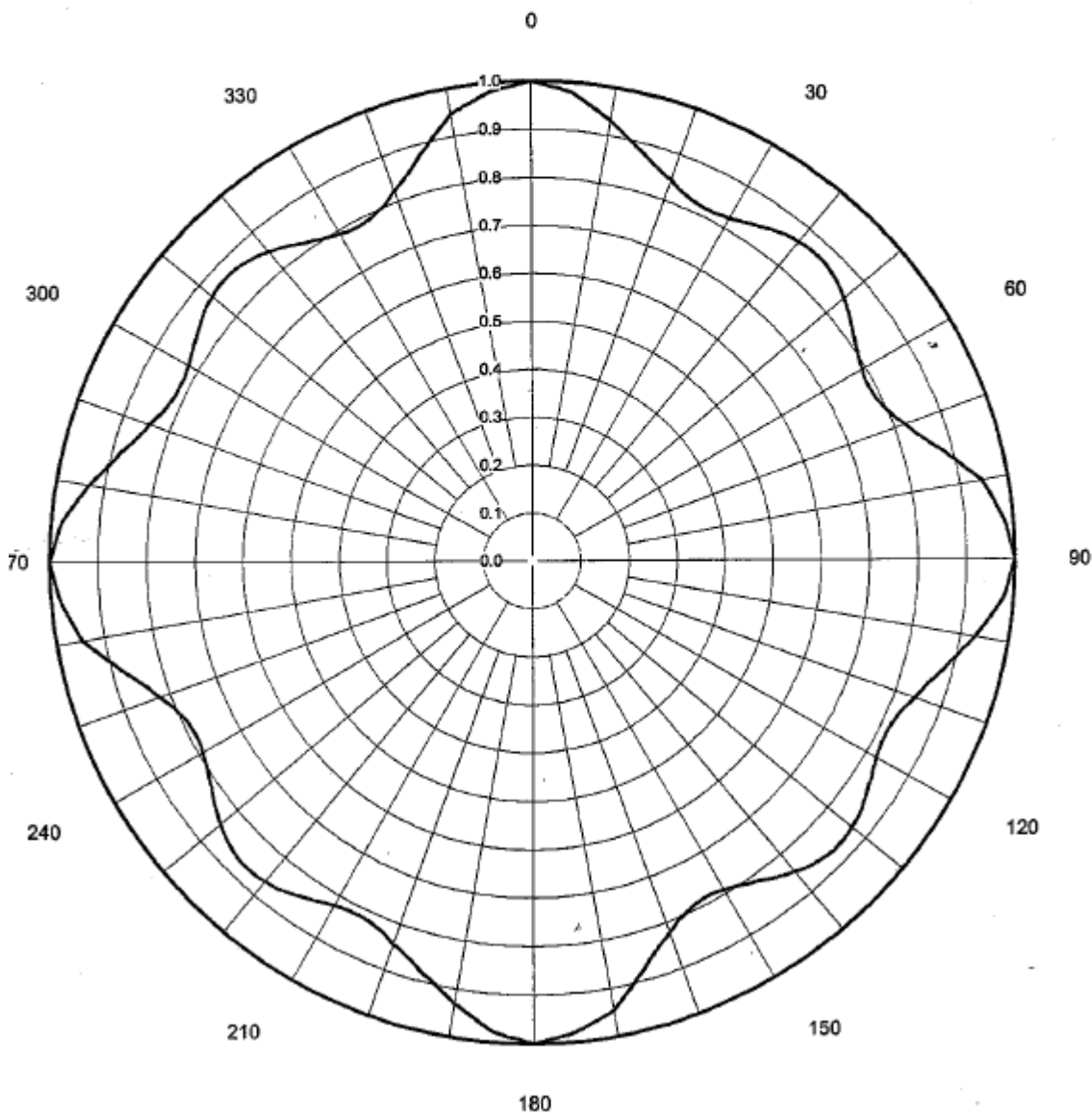
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.022	2.4	0.319	10.6	0.045	30.5	0.086	51.0	0.017	71.5	0.049
-9.5	0.045	2.6	0.236	10.8	0.045	31.0	0.073	51.5	0.009	72.0	0.053
-9.0	0.086	2.8	0.203	11.0	0.040	31.5	0.053	52.0	0.004	72.5	0.054
-8.5	0.087	3.0	0.208	11.5	0.018	32.0	0.031	52.5	0.009	73.0	0.053
-8.0	0.047	3.2	0.219	12.0	0.051	32.5	0.015	53.0	0.013	73.5	0.050
-7.5	0.031	3.4	0.218	12.5	0.069	33.0	0.013	53.5	0.011	74.0	0.045
-7.0	0.052	3.6	0.198	13.0	0.052	33.5	0.014	54.0	0.007	74.5	0.039
-6.5	0.027	3.8	0.162	13.5	0.021	34.0	0.011	54.5	0.007	75.0	0.031
-6.0	0.057	4.0	0.119	14.0	0.032	34.5	0.006	55.0	0.014	75.5	0.024
-5.5	0.118	4.2	0.085	14.5	0.035	35.0	0.011	55.5	0.021	76.0	0.018
-5.0	0.124	4.4	0.087	15.0	0.016	35.5	0.017	56.0	0.024	76.5	0.015
-4.5	0.064	4.6	0.117	15.5	0.035	36.0	0.017	56.5	0.024	77.0	0.018
-4.0	0.055	4.8	0.149	16.0	0.056	36.5	0.011	57.0	0.020	77.5	0.025
-3.5	0.093	5.0	0.170	16.5	0.049	37.0	0.005	57.5	0.013	78.0	0.032
-3.0	0.052	5.2	0.175	17.0	0.021	37.5	0.011	58.0	0.007	78.5	0.039
-2.8	0.066	5.4	0.165	17.5	0.017	38.0	0.014	58.5	0.007	79.0	0.045
-2.6	0.125	5.6	0.141	18.0	0.029	38.5	0.011	59.0	0.011	79.5	0.051
-2.4	0.199	5.8	0.107	18.5	0.018	39.0	0.006	59.5	0.012	80.0	0.056
-2.2	0.274	6.0	0.070	19.0	0.020	39.5	0.013	60.0	0.010	80.5	0.060
-2.0	0.341	6.2	0.042	19.5	0.043	40.0	0.019	60.5	0.006	81.0	0.063
-1.8	0.391	6.4	0.045	20.0	0.049	40.5	0.020	61.0	0.006	81.5	0.065
-1.6	0.416	6.6	0.067	20.5	0.033	41.0	0.014	61.5	0.013	82.0	0.066
-1.4	0.410	6.8	0.083	21.0	0.012	41.5	0.006	62.0	0.020	82.5	0.067
-1.2	0.371	7.0	0.090	21.5	0.020	42.0	0.007	62.5	0.024	83.0	0.068
-1.0	0.300	7.2	0.085	22.0	0.020	42.5	0.011	63.0	0.026	83.5	0.068
-0.8	0.208	7.4	0.071	22.5	0.009	43.0	0.010	63.5	0.025	84.0	0.067
-0.6	0.144	7.6	0.050	23.0	0.028	43.5	0.005	64.0	0.021	84.5	0.066
-0.4	0.209	7.8	0.034	23.5	0.042	44.0	0.009	64.5	0.014	85.0	0.065
-0.2	0.355	8.0	0.041	24.0	0.037	44.5	0.017	65.0	0.008	85.5	0.064
0.0	0.517	8.2	0.062	24.5	0.018	45.0	0.021	65.5	0.007	86.0	0.062
0.2	0.673	8.4	0.082	25.0	0.014	45.5	0.018	66.0	0.011	86.5	0.061
0.4	0.808	8.6	0.096	25.5	0.023	46.0	0.012	66.5	0.014	87.0	0.059
0.6	0.911	8.8	0.102	26.0	0.014	46.5	0.006	67.0	0.016	87.5	0.058
0.8	0.977	9.0	0.098	26.5	0.022	47.0	0.010	67.5	0.014	88.0	0.056
1.0	1.000	9.2	0.086	27.0	0.052	47.5	0.013	68.0	0.011	88.5	0.054
1.2	0.979	9.4	0.068	27.5	0.070	48.0	0.011	68.5	0.008	89.0	0.052
1.4	0.918	9.6	0.046	28.0	0.064	48.5	0.006	69.0	0.010	89.5	0.051
1.6	0.823	9.8	0.036	28.5	0.036	49.0	0.009	69.5	0.018	90.0	0.049
1.8	0.704	10.0	0.021	29.0	0.023	49.5	0.017	70.0	0.027		
2.0	0.571	10.2	0.026	29.5	0.057	50.0	0.022	70.5	0.036		
2.2	0.437	10.4	0.037	30.0	0.081	50.5	0.022	71.0	0.043		

Proposal Number	DCA-10011	Revision:	1
Date	21-Mar-03		
Call Letters	KOZK-DT	Channel	23
Location	Springfield, MO		
Customer	Southwest MO State		
Antenna Type	TUF-O4-16/64H-1-T		

AZIMUTH PATTERN

Gain	1.31	(1.17 dB)
Calculated / Measured		Calculated

Frequency	527.00 MHz
Drawing #	TUF-O4-527



Proposal Number **DCA-10011** Revision: **1**
 Date **21-Mar-03**
 Call Letters **KOZK-DT** Channel **23**
 Location **Springfield, MO**
 Customer **Southwest MO State**
 Antenna Type **TUF-04-16/64H-1-T**

TABULATION OF AZIMUTH PATTERNAzimuth Pattern Drawing #: **TUF-04-527**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	1.000	45	0.866	90	1.000	135	0.866	180	1.000	225	0.866	270	1.000	315	0.866
1	0.995	46	0.864	91	0.995	136	0.864	181	0.995	226	0.864	271	0.995	316	0.864
2	0.991	47	0.861	92	0.991	137	0.861	182	0.991	227	0.861	272	0.991	317	0.861
3	0.986	48	0.857	93	0.986	138	0.857	183	0.986	228	0.857	273	0.986	318	0.857
4	0.982	49	0.852	94	0.982	139	0.852	184	0.982	229	0.852	274	0.982	319	0.852
5	0.978	50	0.846	95	0.978	140	0.846	185	0.978	230	0.846	275	0.978	320	0.846
6	0.968	51	0.841	96	0.968	141	0.841	186	0.968	231	0.841	276	0.968	321	0.841
7	0.958	52	0.835	97	0.958	142	0.835	187	0.958	232	0.835	277	0.958	322	0.835
8	0.949	53	0.829	98	0.949	143	0.829	188	0.949	233	0.829	278	0.949	323	0.829
9	0.940	54	0.822	99	0.940	144	0.822	189	0.940	234	0.822	279	0.940	324	0.822
10	0.932	55	0.815	100	0.932	145	0.815	190	0.932	235	0.815	280	0.932	325	0.815
11	0.920	56	0.809	101	0.920	146	0.809	191	0.920	236	0.809	281	0.920	326	0.809
12	0.909	57	0.804	102	0.909	147	0.804	192	0.909	237	0.804	282	0.909	327	0.804
13	0.899	58	0.799	103	0.899	148	0.799	193	0.899	238	0.799	283	0.899	328	0.799
14	0.891	59	0.794	104	0.891	149	0.794	194	0.891	239	0.794	284	0.891	329	0.794
15	0.883	60	0.791	105	0.883	150	0.791	195	0.883	240	0.791	285	0.883	330	0.791
16	0.872	61	0.788	106	0.872	151	0.788	196	0.872	241	0.788	286	0.872	331	0.788
17	0.863	62	0.786	107	0.863	152	0.786	197	0.863	242	0.786	287	0.863	332	0.786
18	0.855	63	0.786	108	0.855	153	0.786	198	0.855	243	0.786	288	0.855	333	0.786
19	0.849	64	0.787	109	0.849	154	0.787	199	0.849	244	0.787	289	0.849	334	0.787
20	0.844	65	0.789	110	0.844	155	0.789	200	0.844	245	0.789	290	0.844	335	0.789
21	0.836	66	0.793	111	0.836	156	0.793	201	0.836	246	0.793	291	0.836	336	0.793
22	0.830	67	0.798	112	0.830	157	0.798	202	0.830	247	0.798	292	0.830	337	0.798
23	0.825	68	0.805	113	0.825	158	0.805	203	0.825	248	0.805	293	0.825	338	0.805
24	0.821	69	0.813	114	0.821	159	0.813	204	0.821	249	0.813	294	0.821	339	0.813
25	0.818	70	0.823	115	0.818	160	0.823	205	0.818	250	0.823	295	0.818	340	0.823
26	0.817	71	0.831	116	0.817	161	0.831	206	0.817	251	0.831	296	0.817	341	0.831
27	0.817	72	0.841	117	0.817	162	0.841	207	0.817	252	0.841	297	0.817	342	0.841
28	0.818	73	0.852	118	0.818	163	0.852	208	0.818	253	0.852	298	0.818	343	0.852
29	0.820	74	0.865	119	0.820	164	0.865	209	0.820	254	0.865	299	0.820	344	0.865
30	0.822	75	0.878	120	0.822	165	0.878	210	0.822	255	0.878	300	0.822	345	0.878
31	0.826	76	0.891	121	0.826	166	0.891	211	0.826	256	0.891	301	0.826	346	0.891
32	0.831	77	0.903	122	0.831	167	0.903	212	0.831	257	0.903	302	0.831	347	0.903
33	0.835	78	0.917	123	0.835	168	0.917	213	0.835	258	0.917	303	0.835	348	0.917
34	0.840	79	0.931	124	0.840	169	0.931	214	0.840	259	0.931	304	0.840	349	0.931
35	0.845	80	0.946	125	0.845	170	0.946	215	0.845	260	0.946	305	0.845	350	0.946
36	0.850	81	0.953	126	0.850	171	0.953	216	0.850	261	0.953	306	0.850	351	0.953
37	0.855	82	0.959	127	0.855	172	0.959	217	0.855	262	0.959	307	0.855	352	0.959
38	0.859	83	0.966	128	0.859	173	0.966	218	0.859	263	0.966	308	0.859	353	0.966
39	0.862	84	0.973	129	0.862	174	0.973	219	0.862	264	0.973	309	0.862	354	0.973
40	0.865	85	0.980	130	0.865	175	0.980	220	0.865	265	0.980	310	0.865	355	0.980
41	0.867	86	0.984	131	0.867	176	0.984	221	0.867	266	0.984	311	0.867	356	0.984
42	0.869	87	0.988	132	0.869	177	0.988	222	0.869	267	0.988	312	0.869	357	0.988
43	0.869	88	0.992	133	0.869	178	0.992	223	0.869	268	0.992	313	0.869	358	0.992
44	0.868	89	0.996	134	0.868	179	0.996	224	0.868	269	0.996	314	0.868	359	0.996