Note:
Study cell size: 1.00 km
Profile point spacing: 0.10 km

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KJNM_Ch34_1x2_85deg_Hgt_Pre, Model: Longley-Rice
Start: 2019.05.07 17:01:32

Study created: 2019.05.07 17:01:31

Study build station data: LMS TV 2019-05-06 #74

    Proposal: KJNM-LD D34 LD APP FAYETTEVILLE, AR
 File number: KJNM_Ch34_1x2_85deg_Hgt
 Facility ID: 184462
Station data: User record
   Record ID: 970
     Country: U.S.

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

Search options:
Baseline record excluded if station has CP
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KCLJ-LP	N30z	TX	LIC	JOPLIN/CARTHAGE, MO	BLTTA20050506ACG	102.2 km
No	KHMF-LD	N33+	TX	LIC	FORT SMITH, AR	BLTTL20051208ACS	101.4
No	KHMF-LD	D33+	LD	LIC	FORT SMITH, AR	BLANK0000068733	71.2
Yes	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617	36.2
No	KDSI-LD	D33	LD	CP	JOPLIN, MO	BDCCDTL20110215AAK	108.0
No	K33NG-D	D33	LD	CP	SPRINGFIELD, MO	BDCCDTT20121214ADU	162.4
No	KUOC-LD	D33	LD	CP	ENID, OK	BLANK0000052463	169.1
Yes	KSJF-CD	D34	DC	LIC	FORT SMITH, AR	BLANK0000064259	71.2
No	KWFT-LP	N34z	TX	LIC	FORT SMITH, AR	BLTTL20021115AAI	71.2
No	KWMO-LD	D34	LD	LIC	HOT SPRINGS, AR	BLDTL20141201BAO	217.1
No	K50MM-D	D34	LD	APP	JONESBORO, AR	BLANK0000071894	307.2
No	K33MV-D	D34	LD	APP	PARAGOULD, AR	BLANK0000072000	340.3
No	KASN	D34	DT	CP	PINE BLUFF, AR	BLANK0000034796	260.5
No	K41MN-D	D34	LD	APP	EMPORIA, KS	BLANK0000071803	309.7
No	KMSS-TV	D34	DT	LIC	SHREVEPORT, LA	BLCDT20050705AAB	387.6
Yes	K41KX-D	D34	LD	CP	JOPLIN, MO	BLANK0000058756	102.2
No	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	327.1
No	K34KX-D	D34	LD	LIC	ROLLA, MO	BLDTL20130222ADC	292.0
No	KSPR-LD	D34	LD	CP	SPRINGFIELD, MO	BLANK0000052519	159.3
No	KCYH-LD	D34	LD	LIC	ARDMORE, OK	BLANK0000068523	350.0
No	KWRW-LP	D34+	LD	APP	ARDMORE, OK	BLANK0000072256	320.3
No	K34ML-D	D34	LD	CP	MC ALESTER, OK	BNPDTL20100511ABJ	211.6
Yes	KMYT-TV	D34	DT	LIC	TULSA, OK	BLANK0000067647	134.7
No	K34LT-D	D34	LD	CP	VIAN, OK	BNPDTL20100504AMA	100.7
No	WFBI-LD	D34	LD	CP	SOUTH EAST MEMPHIS, TN	BLANK0000054142	408.1
No	KSTR-DT	D34	DT	BL	IRVING, TX	DTVBL60534	474.5
No	KFLU-LD	D35	LD	CP	FORT SMITH, AR	BLANK0000052862	0.0
No	KRAH-CD	D35	DC	CP	PARIS, AR	BLANK0000035644	132.3
No	KRAH-CD	D35	DC	LIC	PARIS, AR	BLDTA20130130AIO	101.5
No	KOZJ	D35	DT	LIC	JOPLIN, MO	BLANK0000059543	107.9
No	KJPX-LP	N35+	TX	LIC	JOPLIN, MO	BLTTL20090304ADT	102.2
No	KEGG-LD	D35	LD	CP	TULSA, OK	BLANK0000054185	168.7
No	K29LK-D	N41+	TX	LIC	Springfield, MO	BLTT20020502AAT	161.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D34
       Mask: Full Service
   Latitude: 36 8 50.00 N (NAD83)

  Longitude: 94 11 14.00 W
Height AMSL: 499.2 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: SIRA 1x2 85.0 deg
Elev Pattrn: Generic

50.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.29 kW	110.7 m	36.6 km
45.0	13.7	83.3	40.5
90.0	9.27	118.9	42.5
135.0	15.0	108.5	44.0
180.0	1.67	98.1	31.9
225.0	0.047	130.2	16.0
270.0	0.014	132.0	12.3
315.0	0.069	128.1	17.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 114 m

Distance to Canadian border: 1150.0 km

Distance to Mexican border: 976.6 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 326.5 degrees   Distance: 646.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 297.9 degrees   Distance: 1060.2 km

Study cell size: 1.00 km
Profile point spacing: 0.10 km

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

Interference to BLANK0000027617 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617	
Undesireds:	KJNM-LD	D34	LD	APP	FAYETTEVILLE, AR	KJNM_Ch34_1x2_85deg_Hg	36.2 km
	KWNL-CD	D32	DC	LIC	BENTONVILLE, AR	BLANK0000055355	36.2
	KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL	332.0
	KSJF-CD	D34	DC	LIC	FORT SMITH, AR	BLANK0000064259	105.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25439.3	825,965	24387.0	810,388	24315.7	806,929	24315.7	806,929	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
KJNM-LD D34 LD APP	1.0	55			0.0	0
KWNL-CD D32 DC LIC	9.1	2,549	9.1	2,549	8.1	2,494
KOCB D33 DT LIC	40.3	877	40.3	877	40.3	877
KSJF-CD D34 DC LIC	21.8	33	21.8	33	21.8	33

Interference to BLANK0000064259 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSJF-CD	D34	DC	LIC	FORT SMITH, AR	BLANK0000064259	
Undesireds:	KJNM-LD	D34	LD	APP	FAYETTEVILLE, AR	KJNM_Ch34_1x2_85deg_Hg	71.2 km
	KASN	D34	DT	CP	PINE BLUFF, AR	BLANK0000034796	230.4
	KMYT-TV	D34	DT	LIC	TULSA, OK	BLANK0000067647	130.2
	KRAH-CD	D35	DC	CP	PARIS, AR	BLANK0000035644	106.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5531.3	233,605	4934.7	222,076	4704.5	219,304	4702.5	219,230	0.04	0.03

Undesired		Total IX	Unique IX, before		Unique IX, after	
KJNM-LD D34 LD APP	6.1	164			2.0	74
KASN D34 DT CP	23.8	235	12.9	200	12.9	200
KMYT-TV D34 DT LIC	217.3	2,572	206.4	2,537	202.3	2,447

Interference to BLANK0000058756 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K41KX-D	D34	LD	CP	JOPLIN, MO	BLANK0000058756	
Undesireds:	KJNM-LD	D34	LD	APP	FAYETTEVILLE, AR	KJNM_Ch34_1x2_85deg_Hg	102.2 km
	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617	80.9
	KDSI-LD	D33	LD	CP	JOPLIN, MO	BDCCDTL20110215AAK	13.5
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	225.3
	KSPR-LD	D34	LD	CP	SPRINGFIELD, MO	BLANK0000052519	129.1
	KMYT-TV	D34	DT	LIC	TULSA, OK	BLANK0000067647	162.1
	KOZJ	D35	DT	LIC	JOPLIN, MO	BLANK0000059543	13.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5217.5	202,870	5179.4	202,609	4391.7	188,330	4391.7	188,330	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
KJNM-LD D34 LD APP	1.0	9			0.0	0
KNWA-TV D33 DT CP	4.0	46	1.0	0	1.0	0
KDSI-LD D33 LD CP	427.8	7,634	305.8	2,462	305.8	2,462
WDAF-TV D34 DT LIC	15.0	269	6.0	46	5.0	37
KSPR-LD D34 LD CP	17.0	304	11.0	138	11.0	138
KMYT-TV D34 DT LIC	122.2	1,656	20.0	298	20.0	298
KOZJ D35 DT LIC	428.9	11,203	235.9	5,024	235.9	5,024

Interference to BLANK0000067647 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMYT-TV	D34	DT	LIC	TULSA, OK	BLANK0000067647	
Undesireds:	KJNM-LD	D34	LD	APP	FAYETTEVILLE, AR	KJNM_Ch34_1x2_85deg_Hg	134.7 km
	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617	160.5
	KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL	171.5
	KSJF-CD	D34	DC	LIC	FORT SMITH, AR	BLANK0000064259	130.2
	KASN	D34	DT	CP	PINE BLUFF, AR	BLANK0000034796	360.2
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	351.7
	KOZJ	D35	DT	LIC	JOPLIN, MO	BLANK0000059543	154.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33006.9	1,312,953	32102.2	1,295,366	31802.4	1,291,300	31778.2	1,287,905	0.08	0.26

Undesired		Total IX	Unique IX, before		Unique IX, after	
KJNM-LD D34 LD APP	27.2	3,566			24.2	3,395
KNWA-TV D33 DT CP	2.0	3	2.0	3	2.0	3
KOCB D33 DT LIC	61.8	397	61.8	397	61.8	397
KSJF-CD D34 DC LIC	210.1	3,201	186.2	2,831	184.1	2,683
KASN D34 DT CP	28.9	406	5.0	36	5.0	36
WDAF-TV D34 DT LIC	19.0	429	14.0	388	14.0	388
KOZJ D35 DT LIC	7.0	41	2.0	0	2.0	0

Interference to proposal scenario 1
3.08% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KJNM-LD	D34	LD	APP	FAYETTEVILLE, AR	KJNM_Ch34_1x2_85deg_Hg	
Undesireds:	KHMF-LD	N33+	TX	LIC	FORT SMITH, AR	BLTTL20051208ACS	101.4 km
	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617	36.2
	KSJF-CD	D34	DC	LIC	FORT SMITH, AR	BLANK0000064259	71.2
	KASN	D34	DT	CP	PINE BLUFF, AR	BLANK0000034796	260.5
	K41KX-D	D34	LD	CP	JOPLIN, MO	BLANK0000058756	102.2
	KMYT-TV	D34	DT	LIC	TULSA, OK	BLANK0000067647	134.7
	KFLU-LD	D35	LD	CP	FORT SMITH, AR	BLANK0000052862	0.0
	KRAH-CD	D35	DC	CP	PARIS, AR	BLANK0000035644	132.3

Service area		Terrain-limited		IX-free		Percent IX	
3257.9	353,048	3078.9	350,393	2828.8	339,592	8.13	3.08

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KNWA-TV D33 DT CP	206.7	9,687	155.3	8,756	5.04	2.50
KSJF-CD D34 DC LIC	3.0	6	1.0	6	0.03	0.00
KASN D34 DT CP	2.0	117	0.0	0	0.00	0.00
K41KX-D D34 LD CP	4.0	118	3.0	118	0.10	0.03
KMYT-TV D34 DT LIC	86.8	1,730	33.3	708	1.08	0.20
KFLU-LD D35 LD CP	3.0	191	3.0	191	0.10	0.05