

# KHMF CD Channel 32 Exhibit OET 69

tvstudy v2.2.3 (DAezu1)

Database: localhost, Study: BLANK0000004282 (77), Model: Longley-Rice

Start: 2017.10.11 07:56:30

Study created: 2017.10.11 07:55:19

Study build station data: LMS TV 2017-10-11 (15)

Proposal: KHMF D32 DC LIC WINSLOW, AR

File number: BLANK0000004282

Facility ID: 0

Station data: User record

Record ID: 80

Country: U.S.

Build options:

Protect LPTV records from Class A

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	
Distance						
KCLG-LD	D32	LD	LIC	NEOSHO, MO	BLDTL20120522ADN	83.5
km						
KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK00000025823	130.4
KRSU-TV	D32	DT	BL	CLAREMORE, OK	DTVBL57431	130.4
KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK00000027617	36.2
KNWA-TV	D33	DT	BL	ROGERS, AR	DTVBL29557	36.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D32

Mask: Full Service

Latitude: 36 8 50.00 N (NAD83)

Longitude: 94 11 14.00 W

Height AMSL: 502.9 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: PSI-PSILPOI/31-36 (ID 1000742) 180.0 deg

Elev Pattn: Generic

Elec Tilt: 0.50

50.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	6.73 kW	114.4 m	40.8 km
45.0	5.58	87.0	36.8
90.0	6.53	122.6	41.2
135.0	11.9	112.2	43.4
180.0	15.0	101.8	43.5
225.0	11.9	133.9	45.0
270.0	7.56	135.7	42.8
315.0	5.58	131.8	41.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: 117 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: 1.00 km

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

Maximum new IX to LPTV: 2.00%

-----  
Interference to BLDLTL20120522ADN LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number
Distance Desired:	KCLG-LD	D32	LD	LIC	NEOSHO, MO	BLDLTL20120522ADN
Undesireds:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
83.5 km	K32KV-D	D32	LD	APP	JEFFERSON CITY, MO	BLANK00000013767
224.8	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK00000024829
246.1	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK00000025823
119.5	KDSI-LD	D33	LD	CP	JOPLIN, MO	
BDCCDTL20110215AAK		25.1				

	Service area		Terrain-limited		IX-free, before	IX-free,
after	Percent New IX					
1080.0	66,373	1065.0	65,306	1020.0	58,597	1020.0
58,597	0.00	0.00				

Undesired after		Total IX	Unique IX, before	Unique IX,
KHMF D32 DC LIC	4.0	423		0.0
0				
KSMO-TV D32 DT CP	5.0	838	0.0	0
0				0.0
KRSU-TV D32 DT CP	5.0	96	5.0	96
96				5.0
KDSI-LD D33 LD CP	39.9	6,613	34.9	5,775
5,568				33.9

-----

-----  
Interference to BLANK0000025823 CP, scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK0000025823
Undesireds:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
130.4 km	KOET	D31	DT	LIC	EUFAULA, OK	BLEDT20060601BJT
137.5	KARK-TV	D32	DT	LIC	LITTLE ROCK, AR	
BMLCDT20121102ACP		332.6				
315.2	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829
147.9	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617

after	Service area Percent New IX	Terrain-limited	IX-free, before	IX-free,
15566.2	1,000,224	15460.4	998,801	15371.1
997,440	0.27	0.11	15412.4	998,517

Undesired after	Total IX	Unique IX, before	Unique IX,
KHMF D32 DC LIC	52.4	1,110	41.3
1,077			
KOET D31 DT LIC	24.9	116	23.9
113			
KARK-TV D32 DT LIC	13.1	158	5.1
128			
KSMO-TV D32 DT CP	10.0	10	8.0
10			

-----  
Interference to BLANK0000025823 CP, scenario 2

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK0000025823
Undesireds:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
130.4 km	KOET	D31	DT	LIC	EUFAULA, OK	BLEDT20060601BJT
137.5	KARK-TV	D32	DT	LIC	LITTLE ROCK, AR	
BMLCDT20121102ACP		332.6				
315.2	KSMO-TV	D32	DT	BL	KANSAS CITY, MO	DTVBL33336
147.9	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617

after	Service area Percent New IX	Terrain-limited	IX-free, before	IX-free,
15566.2	1,000,224	15460.4	998,801	15371.1
997,440	0.27	0.11	15412.4	998,517

Undesired	Total IX	Unique IX, before	Unique IX,

after						
KHMF D32 DC LIC	52.4	1,110				41.3
1,077						
KOET D31 DT LIC	24.9	116	24.9	116		23.9
113						
KARK-TV D32 DT LIC	13.1	158	13.1	158		5.1
128						
KSMO-TV D32 DT BL	10.0	10	10.0	10		8.0
10						

Interference to DTVBL57431 BL, scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KRSU-TV	D32	DT	BL	CLAREMORE, OK	DTVBL57431
Undesireds:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
130.4 km	KOET	D31	DT	LIC	EUFAULA, OK	BLEDT20060601BJT
137.5	KARK-TV	D32	DT	LIC	LITTLE ROCK, AR	
BMLCDT20121102ACP	332.6					
315.2	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK00000024829
147.9	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK00000027617

after	Service area	Terrain-limited	IX-free, before	IX-free,
15386.4	Percent New IX			
994,495	997,024	15286.7	995,693	15208.3
	0.24	0.09		

Undesired	Total IX	Unique IX, before	Unique IX,
after			
KHMF D32 DC LIC	43.3	928	36.3
894			
KOET D31 DT LIC	26.0	141	24.0
132			
KARK-TV D32 DT LIC	10.1	153	5.1
128			
KSMO-TV D32 DT CP	6.0	10	6.0
10			

Interference to DTVBL57431 BL, scenario 2

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KRSU-TV	D32	DT	BL	CLAREMORE, OK	DTVBL57431
Undesireds:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
130.4 km	KOET	D31	DT	LIC	EUFAULA, OK	BLEDT20060601BJT
137.5	KARK-TV	D32	DT	LIC	LITTLE ROCK, AR	
BMLCDT20121102ACP	332.6					

315.2	KSMO-TV	D32	DT	BL	KANSAS CITY, MO	DTVBL33336
147.9	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK00000027617

after	Service area		Terrain-limited		IX-free, before	IX-free,
15386.4	Percent New	IX				
994,495	997,024	15286.7	995,693	15244.6	995,389	15208.3
	0.24	0.09				

Undesired			Total IX		Unique IX, before	Unique IX,
after						
KHMF D32 DC LIC		43.3	928			36.3
894						
KOET D31 DT LIC		26.0	141	26.0	141	24.0
132						
KARK-TV D32 DT LIC		10.1	153	10.1	153	5.1
128						
KSMO-TV D32 DT BL		6.0	10	6.0	10	6.0
10						

-----  
Interference to BLANK00000027617 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number
Distance						
Desired:	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK00000027617
Undesireds:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK00000004282
36.2 km						
	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK00000025823
147.9						
	KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL
332.0						
	KHMF-CD	D34	DC	APP	BENTONVILLE, AR	BLANK00000030478
20.5						
	KSJF-CD	D34	DC	APP	POTEAU, OK	BLANK00000032952
105.7						
	KMYT-TV	D34	DT	CP	TULSA, OK	BLANK00000027114
160.5						

after	Service area		Terrain-limited		IX-free, before	IX-free,
25439.3	Percent New	IX				
805,151	825,965	23888.9	807,468	23778.6	805,340	23769.5
	0.04	0.02				

Undesired			Total IX		Unique IX, before	Unique IX,
after						
KHMF D32 DC LIC		9.1	189			9.1
189						
KOCB D33 DT LIC		65.5	1,889	56.5	1,667	56.5
1,667						
KHMF-CD D34 DC APP		2.0	0	2.0	0	2.0
0						
KSJF-CD D34 DC APP		41.7	208	37.7	125	37.7
125						
KMYT-TV D34 DT CP		10.1	253	5.0	114	5.0
114						

-----  
Interference to BLANK0000027617 CP, scenario 2

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617
Undesireds:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
36.2 km	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK0000025823
147.9	KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL
332.0	KHMF-CD	D34	DC	APP	BENTONVILLE, AR	BLANK0000030478
20.5	KSJF-CD	D34	DC	APP	POTEAU, OK	BLANK0000032952
105.7	KMYT-TV	D34	DT	BL	TULSA, OK	DTVBL54420
160.5						

after	Service area Percent New IX	Terrain-limited	IX-free, before	IX-free,
25439.3	825,965	23888.9	807,468	23778.6
805,151	0.04	0.02	805,340	23769.5

Undesired after	Total IX	Unique IX, before	Unique IX,
KHMF D32 DC LIC 189	9.1 189		9.1
KOCB D33 DT LIC 1,667	65.5 1,889	56.5 1,667	56.5
KHMF-CD D34 DC APP 0	2.0 0	2.0 0	2.0
KSJF-CD D34 DC APP 125	41.7 208	37.7 125	37.7
KMYT-TV D34 DT BL 114	10.1 253	5.0 114	5.0

-----  
Interference to DTVBL29557 BL, scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KNWA-TV	D33	DT	BL	ROGERS, AR	DTVBL29557
Undesireds:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
36.2 km	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK0000025823
147.9	KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL
332.0	KHMF-CD	D34	DC	APP	BENTONVILLE, AR	BLANK0000030478
20.5	KSJF-CD	D34	DC	APP	POTEAU, OK	BLANK0000032952
105.7	KMYT-TV	D34	DT	CP	TULSA, OK	BLANK0000027114

160.5

after	Service area Percent New IX	Terrain-limited	IX-free, before	IX-free,
24970.8	813,812	23452.2	794,390	23342.9
792,209	0.05	0.07	792,725	23331.7

Undesired after	Total IX	Unique IX, before	Unique IX,
KHMF D32 DC LIC	11.1	516	11.1
516			
KOCB D33 DT LIC	70.6	1,444	58.5
1,204			1,204
KHMF-CD D34 DC APP	2.0	0	2.0
0			0
KSJF-CD D34 DC APP	40.7	208	35.7
125			125
KMYT-TV D34 DT CP	8.1	253	1.0
96			96

-----  
-----  
Interference to DTVBL29557 BL, scenario 2

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KNWA-TV	D33	DT	BL	ROGERS, AR	DTVBL29557
Undesireds:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
36.2 km	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK00000025823
147.9	KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL
332.0	KHMF-CD	D34	DC	APP	BENTONVILLE, AR	BLANK00000030478
20.5	KSJF-CD	D34	DC	APP	POTEAU, OK	BLANK00000032952
105.7	KMYT-TV	D34	DT	BL	TULSA, OK	DTVBL54420
160.5						

after	Service area Percent New IX	Terrain-limited	IX-free, before	IX-free,
24970.8	813,812	23452.2	794,390	23342.9
792,209	0.05	0.07	792,725	23331.7

Undesired after	Total IX	Unique IX, before	Unique IX,
KHMF D32 DC LIC	11.1	516	11.1
516			
KOCB D33 DT LIC	70.6	1,444	58.5
1,204			1,204
KHMF-CD D34 DC APP	2.0	0	2.0
0			0
KSJF-CD D34 DC APP	40.7	208	35.7
125			125
KMYT-TV D34 DT BL	8.1	253	1.0
96			96

-----  
Interference to proposal, scenario 1  
6.25% interference

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
Undesireds:	KARK-TV	D32	DT	LIC	LITTLE ROCK, AR	
BMLCDT20121102ACP				213.9 km		
	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK00000024829
328.1						
	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK00000025823
130.4						
	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK00000027617
36.2						

Service area	Terrain-limited	IX-free	Percent IX
5515.7 436,714	5055.4 430,127	4504.9 403,245	10.89 6.25

Undesired	Total IX	Unique IX	Prcnt Unique IX
KARK-TV D32 DT LIC 66.5	2,907	28.2 493	0.56 0.11
KRSU-TV D32 DT CP 77.7	2,482	45.4 1,281	0.90 0.30
KNWA-TV D33 DT CP 458.7	24,224	431.5 22,557	8.53 5.24

-----  
Interference to proposal, scenario 2  
5.59% interference

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
Undesireds:	KARK-TV	D32	DT	LIC	LITTLE ROCK, AR	
BMLCDT20121102ACP				213.9 km		
	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK00000024829
328.1						
	KRSU-TV	D32	DT	CP	CLAREMORE, OK	BLANK00000025823
130.4						
	KNWA-TV	D33	DT	BL	ROGERS, AR	DTVBL29557
36.2						

Service area	Terrain-limited	IX-free	Percent IX
5515.7 436,714	5055.4 430,127	4522.1 406,101	10.55 5.59

Undesired	Total IX	Unique IX	Prcnt Unique IX
KARK-TV D32 DT LIC 66.5	2,907	31.2 674	0.62 0.16
KRSU-TV D32 DT CP 77.7	2,482	45.4 1,281	0.90 0.30
KNWA-TV D33 DT BL 438.5	21,187	414.3 19,701	8.20 4.58

-----  
Interference to proposal, scenario 3  
6.18% interference

Distance	Call	Chan	Svc	Status	City, State	File Number
----------	------	------	-----	--------	-------------	-------------



Desired:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
Undesireds:	KARK-TV	D32	DT	LIC	LITTLE ROCK, AR	
	BMLCDT20121102ACP			213.9 km		
	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK00000024829
328.1						
	KRSU-TV	D32	DT	BL	CLAREMORE, OK	DTVBL57431
130.4						
	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK00000027617
36.2						

	Service area		Terrain-limited		IX-free		Percent IX
5515.7	436,714	5055.4	430,127	4510.0	403,527	10.79	6.18

Undesired				Total IX		Unique IX	Prcnt Unique IX
KARK-TV D32 DT LIC	66.5	2,907	28.2	493	0.56	0.11	
KRSU-TV D32 DT BL	70.6	2,159	40.4	999	0.80	0.23	
KNWA-TV D33 DT CP	458.7	24,224	432.5	22,557	8.55	5.24	

-----  
Interference to proposal, scenario 4  
5.52% interference

	Call	Chan	Svc	Status	City, State	File Number
Distance						
Desired:	KHMF	D32	DC	LIC	WINSLOW, AR	BLANK0000004282
Undesireds:	KARK-TV	D32	DT	LIC	LITTLE ROCK, AR	
	BMLCDT20121102ACP			213.9 km		
	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK00000024829
328.1						
	KRSU-TV	D32	DT	BL	CLAREMORE, OK	DTVBL57431
130.4						
	KNWA-TV	D33	DT	BL	ROGERS, AR	DTVBL29557
36.2						

	Service area		Terrain-limited		IX-free		Percent IX
5515.7	436,714	5055.4	430,127	4527.1	406,383	10.45	5.52

Undesired				Total IX		Unique IX	Prcnt Unique IX
KARK-TV D32 DT LIC	66.5	2,907	31.2	674	0.62	0.16	
KRSU-TV D32 DT BL	70.6	2,159	40.4	999	0.80	0.23	
KNWA-TV D33 DT BL	438.5	21,187	415.3	19,701	8.22	4.58	