tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K38OX_UHF_Omni_Post, Model: Longley-Rice
Start: 2019.03.29 18:53:49

Study created: 2019.03.29 13:49:07

Study build station data: LMS TV 2019-03-28

    Proposal: K38OX-D D14 LD APP KEOKUK, IA
 File number: K38OX_UHF_Omni
 Facility ID: 188731
Station data: User record
   Record ID: 634
     Country: U.S.

Build options:
Protect baseline records from LPTV

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	KBBA-LD	D14	LD	LIC	CEDAR FALLS, IA	BLANK0000004383	292.5 km
Yes	KFXB-TV	D14	DT	CP	DUBUQUE, IA	BLANK0000041255	289.2
Yes	KFXB-TV	D14	DT	LIC	DUBUQUE, IA	BLANK0000063821	289.2
No	WDLF-LD	D14	LD	LIC	PEORIA, IL	BLANK0000010592	165.8
No	WBDI-LD	D14	LD	LIC	SPRINGFIELD, IL	BLDTL20140228AFS	148.5
No	K14NX-D	D14	LD	CP	PITTSBURG, KS	BNPDTL20100106AGD	413.9
No	KUKC-LD	D14	LD	CP	KANSAS CITY, MO	BLANK0000054934	288.5
No	K17FU-D	D14	LD	CP	MARSHFIELD, MO	BLANK0000054720	327.5
No	K14PQ-D	D14	LD	CP	SAINT JOSEPH, MO	BNPDTL20100902ABK	329.3
Yes	KNLC	D14	DT	APP	ST. LOUIS, MO	BLANK0000035663	191.2
Yes	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDT20061228AAC	191.2
No	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	145.9
No	WICS	D15	DT	CP	SPRINGFIELD, IL	BLANK0000034386	160.3
No	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	199.8
No	K38HD-D	D15	LD	CP	ST. LOUIS, MO	BLANK0000036804	178.0
No	W27DF-D	N18-	TX	LIC	QUINCY, IL	BLTTL20011120AAN	0.0

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
WGEM 1440 L DA2 D QUINCY, IL BL
WGEM 1440 L DA2 N QUINCY, IL BL

Record parameters as studied:

    Channel: D14
       Mask: Full Service
   Latitude: 39 58 19.30 N (NAD83)
  Longitude: 91 19 40.40 W
Height AMSL: 347.7 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

48.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	143.2 m	48.9 km
45.0	15.0	133.9	48.2
90.0	15.0	137.8	48.5
135.0	15.0	148.4	49.2
180.0	15.0	154.2	49.6
225.0	15.0	179.4	51.2
270.0	15.0	189.3	51.8
315.0	15.0	184.1	51.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 159 m

Distance to Canadian border: 723.1 km

Distance to Mexican border: 1457.1 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 55.1 degrees Distance: 535.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 275.5 degrees Distance: 1181.2 km

No land mobile station failures found

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 BLANK0000041255 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFXB-TV	D14	DT	CP	DUBUQUE, IA	BLANK0000041255	
Undesireds:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	289.2 km
	WEUX	D14	DT	BL	CHIPPEWA FALLS, WI	DTVBL2709	283.7
	WGBA-TV	D14	DT	CP	GREEN BAY, WI	BLANK0000034924	295.2
	WHLA-TV	D15	DT	CP	LA CROSSE, WI	BLANK0000031829	155.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
20405.9	372,319	20209.3	367,260	20170.1	362,487	20169.1	362,487	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K38OX-D D14 LD APP	1.0	0			1.0	0
WEUX D14 DT BL	26.1	4,750	23.1	4,742	23.1	4,742
WGBA-TV D14 DT CP	16.1	31	13.1	23	13.1	23

Interference to BLANK0000041255 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFXB-TV	D14	DT	CP	DUBUQUE, IA	BLANK0000041255	
Undesireds:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	289.2 km
	WEUX	D14	DT	BL	CHIPPEWA FALLS, WI	DTVBL2709	283.7
	WGBA-TV	D14	DT	LIC	GREEN BAY, WI	BLANK0000055752	295.2
	WHLA-TV	D15	DT	CP	LA CROSSE, WI	BLANK0000031829	155.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
20405.9	372,319	20209.3	367,260	20170.1	362,487	20169.1	362,487	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K38OX-D D14 LD APP	1.0	0			1.0	0
WEUX D14 DT BL	26.1	4,750	23.1	4,742	23.1	4,742
WGBA-TV D14 DT LIC	16.1	31	13.1	23	13.1	23

Interference to BLANK0000063821 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFXB-TV	D14	DT	LIC	DUBUQUE, IA	BLANK0000063821	
Undesireds:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	289.2 km
	WEUX	D14	DT	BL	CHIPPEWA FALLS, WI	DTVBL2709	283.7
	WGBA-TV	D14	DT	CP	GREEN BAY, WI	BLANK0000034924	295.2
	WHLA-TV	D15	DT	CP	LA CROSSE, WI	BLANK0000031829	155.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
20405.9	372,319	20209.3	367,260	20170.1	362,487	20169.1	362,487	0.00	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after

K38OX-D D14 LD APP	1.0	0				1.0	0		
WEUX D14 DT BL	26.1	4,750	23.1	4,742		23.1	4,742		
WGBA-TV D14 DT CP	16.1	31	13.1	23		13.1	23		

Interference to BLANK0000063821 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFXB-TV	D14	DT	LIC	DUBUQUE, IA	BLANK0000063821	
Undesireds:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	289.2 km
	WEUX	D14	DT	BL	CHIPPEWA FALLS, WI	DTVBL2709	283.7
	WGBA-TV	D14	DT	LIC	GREEN BAY, WI	BLANK0000055752	295.2
	WHLA-TV	D15	DT	CP	LA CROSSE, WI	BLANK0000031829	155.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
20405.9	372,319	20209.3	367,260	20170.1	362,487	20169.1	362,487	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K38OX-D D14 LD APP	1.0	0			1.0	0
WEUX D14 DT BL	26.1	4,750	23.1	4,742	23.1	4,742
WGBA-TV D14 DT LIC	16.1	31	13.1	23	13.1	23

Interference to BLANK0000035663 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNLC	D14	DT	APP	ST. LOUIS, MO	BLANK0000035663	
Undesireds:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	191.2 km
	WLJT-DT	D14	DT	BL	LEXINGTON, TN	DTVBL71645	342.1
	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK0000035857	152.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32492.9	2,982,344	32123.2	2,978,418	32115.1	2,978,316	32073.3	2,978,243	0.13	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K38OX-D D14 LD APP	41.8	73			41.8	73
WLJT-DT D14 DT BL	4.1	5	4.1	5	4.1	5
W15BU-D D15 DC CP	4.0	97	4.0	97	4.0	97

Interference to BLANK0000035663 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNLC	D14	DT	APP	ST. LOUIS, MO	BLANK0000035663	
Undesireds:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	191.2 km
	WLJT-DT	D14	DT	BL	LEXINGTON, TN	DTVBL71645	342.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32492.9	2,982,344	32123.2	2,978,418	32119.1	2,978,413	32077.4	2,978,340	0.13	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K38OX-D D14 LD APP	41.8	73			41.8	73
WLJT-DT D14 DT BL	4.1	5	4.1	5	4.1	5

Interference to BLCDT20061228AAC LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDT20061228AAC	
Undesireds:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	191.2 km
	WLJT-DT	D14	DT	BL	LEXINGTON, TN	DTVBL71645	342.1
	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK0000035857	152.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32606.4	2,945,227	31943.4	2,940,706	31924.1	2,940,657	31914.1	2,940,587	0.03	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K38OX-D D14 LD APP	10.0	70			10.0	70
WLJT-DT D14 DT BL	13.2	39	13.2	39	13.2	39
W15BU-D D15 DC CP	6.1	10	6.1	10	6.1	10

Interference to BLCDT20061228AAC LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDT20061228AAC	
Undesireds:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	191.2 km
	WLJT-DT	D14	DT	BL	LEXINGTON, TN	DTVBL71645	342.1
	W15BU-D	D15	DC	LIC	JOHNSON CITY, IL	BLDTA20090804AAF	152.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32606.4	2,945,227	31943.4	2,940,706	31927.1	2,940,661	31917.2	2,940,591	0.03	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K38OX-D D14 LD APP	10.0	70	10.0 70
WLJT-DT D14 DT BL	13.2	39	13.2 39 13.2 39
W15BU-D D15 DC LIC	3.0	6	3.0 6 3.0 6

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	
Undesireds:	KFXB-TV	D14	DT	CP	DUBUQUE, IA	BLANK0000041255	289.2 km
	KNLC	D14	DT	APP	ST. LOUIS, MO	BLANK0000035663	191.2

Service area		Terrain-limited		IX-free		Percent IX	
7778.7	138,074	7711.5	137,915	7648.8	137,528	0.81	0.28

Undesired	Total IX	Unique IX	Prcnt Unique IX
KNLC D14 DT APP	62.7 387	62.7 387	0.81 0.28

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K38OX-D	D14	LD	APP	KEOKUK, IA	K38OX_UHF_Omni	
Undesireds:	KFXB-TV	D14	DT	CP	DUBUQUE, IA	BLANK0000041255	289.2 km
	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDT20061228AAC	191.2

Service area		Terrain-limited		IX-free		Percent IX	
7778.7	138,074	7711.5	137,915	7705.5	137,839	0.08	0.06

Undesired	Total IX	Unique IX	Prcnt Unique IX
KNLC D14 DT LIC	5.9 76	5.9 76	0.08 0.06