

TECHNICAL EXHIBIT
APPLICATION FOR DIGITAL COMPANION CHANNEL
K34CW TRANSLATOR
KIRKSVILLE, MISSOURI
CH 30 8.2 KW

Technical Exhibit

The technical exhibit supports an application for a digital companion channel for K34CW assigned to Kirksville, Missouri. It is proposed for K34CW to have a digital companion channel operation on Channel 30.

Summary of Proposed Facilities

Below is a tabulation of the proposed paired digital facility:

Channel:	30
Geographic Coordinates:	40° 13' 38" North Latitude 92° 36' 35" West Longitude
Antenna Structure Registration:	1024654
Overall Tower Height:	135 meters
Ground Elevation:	298.7 meters
Radiation Center:	424 meters AMSL 125 meters (410 feet) AGL
Antenna Type:	Scala, SL-8
Antenna Major Lobe Orientation:	n/a (omni directional)
Transmitter Power Output:	1.0 kilowatt (1,000 watts)
Transmission Line:	Andrew 1-5/8" Air Dielectric 460'
Emissions Mask:	Stringent
Effective Radiated Power:	8.2 kilowatts (8,200 watts)

Figure 1 is a map depicting the proposed translator's contour digital contour.

Allocation Considerations

A study has been conducted to assure that the proposal will not create prohibited interference with other post-transition licensed, authorized or pending analog or digital TV, LPTV/translator and Class A TV stations. Using the procedures outlined in the FCC's OET-69 Bulletin, the allocation study is provided in Figure 2.

Radiofrequency Electromagnetic Field Exposure

The proposed facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the antenna is located 125 meters above ground level. The proposed ERP of 8.2 kW is assumed. A conservative relative field value of 0.5 was assumed for the ERI antenna's downward radiation. The calculated power density at ground level is 0.005 mW/cm². This is less than 5% of the FCC's recommended limit of 0.38 mW/cm² for channel 30 for an "uncontrolled" environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.

Charles A. Cooper

du Treil, Lundin & Rackley, Inc.

201 Fletcher Avenue

Sarasota, Florida 34237

(941) 329-6000

June 15, 2011

The map displays Schuyler County, Missouri, and its surrounding areas. A large black circle highlights the central region, which includes the city of Kirksville. An arrow points to Kirksville with a text box indicating the proposed digital translator location: K34CW Kirksville, MO, Proposed Digital Translator, CH 30, 8.2 kW. The map shows county boundaries for Schuyler, Knox, Linn, and Macon counties. Numerous towns and cities are labeled, including Unionville, Green City, Novinger, and Kirksville. A scale bar at the bottom indicates distances in miles (0 to 60) and kilometers (0 to 80). A logo for Consulting Engineers Since 1941 is visible in the bottom left corner, dated March 2011.

du Treil, Lundin & Rackley, Inc Sarasota, Florida

Figure 2

TECHNICAL EXHIBIT
APPLICATION FOR DIGITAL COMPANION CHANNEL
K34CW TRANSLATOR
KIRKSVILLE, MISSOURI
CH 30 8.2 KW

OET-69 Allocation Analysis

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
TW Census data selected 2000
Data Base Selected
/export/home/cdb/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-15-2011 Time: 13:09:01

Record Selected for Analysis

K34CW USERRECORD-01 KIRKSVILLE MO US
Channel 30 ERP 8.2 kW HAAT 151. m RCAMSL 00424 m STRINGENT MASK
Latitude 040-13-38 Longitude 0092-36-35
Status APP Zone 2 Border Site number: 01
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station
Service Class = LD
Maximum height/power limits not checked

Site number	1		
Azimuth	ERP	HAAT	51.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	8.200	150.4	43.7
45.0	8.200	138.1	42.8
90.0	8.200	146.9	43.4
135.0	8.200	137.6	42.8
180.0	8.200	144.6	43.3
225.0	8.200	166.1	44.7
270.0	8.200	160.0	44.3
315.0	8.200	167.7	44.8

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

NO LANDMOBILE SPACING VIOLATIONS FOUND

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Figure 2

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
30	K34CW	KIRKSVILLE MO	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
23	K23CI	OTTUMWA IA	80.5	CP	BPTT -20100526ACT
23	K23CI	OTTUMWA IA	83.8	LIC	BLTT -19890518IJ
23	W23DP	QUINCY IL	113.5	CP	BNPTTL -20000831BKG
27	K27CV	OTTUMWA IA	83.8	LIC	BLTT -19890518IK
27	K27CV	OTTUMWA IA	80.3	CP	BPTT -20100526ACR
29	K29EA	DES MOINES IA	179.5	LIC	BLTTL -20011217ADD
29	NEW	COLUMBIA MO	158.4	APP	BNPDTL -20100902ABD
29	KMBC-DR	KANSAS CITY MO	206.8	APP	BPRM -20080616AEO
29	KMBC-TV	KANSAS CITY MO	206.8	LIC	BLCDT -20090618ACY
30	KHHH-LP	CEDAR RAPIDS IA	206.9	CP	BDISDTL -20110203ADT
30	NEW	KEOKUK IA	103.0	APP	BNPDTL -20101013AAV
30	NEW	SIOUX CITY IA	397.5	APP	BNPDTL -20100217ABP
30	KCAU-TV	SIOUX CITY IA	404.4	LIC	BLCDT -20090903AAI
30	WCRD-LP	CARTHAGE IL	368.0	CP	BDCCDTL -20061030AMS
30	W30DK-D	EFFINGHAM IL	370.2	CP	BNPDTL -20100219ABR
30	WMBD-TV	PEORIA IL	263.7	CP MOD	BMPCDT -20060314ABP
30	WSPY-LP	PLANO IL	374.4	LIC	BLTTL -19900514IR
30	K30LZ-D	FORT RILEY KS	371.3	CP	BNPDTL -20100510AFK
30	K30AL-D	IOLA KS	336.8	LIC	BLDTT -20090226ABD
30	NEW	PAXICO KS	331.3	APP	BNPDTL -20100514AIC
30	NEW	ALBERT LEO MN	390.7	APP	BNPDTL -20100510AJS
30	NEW	CAPE GIRARDEAU MO	398.6	APP	BNPDTL -20100907ACB
30	K30JZ	COLUMBIA MO	140.1	CP	BNPTTL -20000829ALQ
30	KCLJ-LP	JOPLIN MO	385.1	STA	BSTA -20030422ABP
30	KCLJ-LP	JOPLIN MO	385.1	LIC	BLTTA -20050506ACG
30	KCLJ-LP	JOPLIN MO	385.2	CP	BDFCDTA -20100813CAI
30	NEW	SAINT JOSEPH MO	220.3	APP	BNPDTL -20100902ABO
31	KCCI	DES MOINES IA	195.3	CP	BDRTCDT -20090916ABZ
31	KCWE	KANSAS CITY MO	206.8	LIC	BLCDT -20051014ABT
34	K34JU-D	COLUMBIA MO	137.8	CP	BNPTTL -20000830BKD
34	K34CW	KIRKSVILLE MO	0.0	LIC	BLTT -19981210JB

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
23	K23CI	OTTUMWA IA	BPTT -20100526ACT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KYOU-TV	OTTUMWA IA	46.5	LIC	BLCDT -20091013AAV
15	KYOU-TV	OTTUMWA IA	46.5	CP	BPCDT -20110209AAE
16	KDSM-TV	DES MOINES IA	143.3	CP	BPCDT -20110214AEU
16	KDSM-TV	DES MOINES IA	143.3	LIC	BLCDT -20041118ABZ
19	KDMI	DES MOINES IA	143.3	CP MOD	BMPCDT -20090423ABJ
19	KDMI-DR	DES MOINES IA	143.3	APP	BPRM -20081219AFT
22	NEW	OTTUMWA IA	9.2	APP	BNPDTL -20101013AAS

Figure 2

23	KCWI-TV	AMES IA	143.3	LIC	BLCDT	-20090612AIO
23	WQPT-TV	MOLINE IL	173.2	LIC	BLEDT	-20030702AAR
25	KWKB	IOWA CITY IA	123.3	CP	BPCDT	-20080620AFU
25	KWKB	IOWA CITY IA	123.3	LIC	BLCDT	-20070130AJQ
27	KFXA	CEDAR RAPIDS IA	131.3	LIC	BLCDT	-20050713ABD
30	K34CW	KIRKSVILLE MO	80.5	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	K23CI	OTTUMWA IA	BLTT	-19890518IJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KYOU-TV	OTTUMWA IA	45.1	LIC	BLCDT	-20091013AAV
15	KYOU-TV	OTTUMWA IA	45.1	CP	BPCDT	-20110209AAE
16	KDSM-TV	DES MOINES IA	139.9	CP	BPCDT	-20110214AEU
16	KDSM-TV	DES MOINES IA	139.9	LIC	BLCDT	-20041118ABZ
19	KDMI	DES MOINES IA	139.9	CP MOD	BMPCDT	-20090423ABJ
19	KDMI-DR	DES MOINES IA	139.9	APP	BPRM	-20081219AFT
22	NEW	OTTUMWA IA	12.9	APP	BNPDTL	-20101013AAS
23	KCWI-TV	AMES IA	139.9	LIC	BLCDT	-20090612AIO
23	WQPT-TV	MOLINE IL	173.3	LIC	BLEDT	-20030702AAR
25	KWKB	IOWA CITY IA	121.4	CP	BPCDT	-20080620AFU
25	KWKB	IOWA CITY IA	121.4	LIC	BLCDT	-20070130AJQ
27	KFXA	CEDAR RAPIDS IA	127.8	LIC	BLCDT	-20050713ABD
30	K34CW	KIRKSVILLE MO	83.8	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	W23DP	QUINCY IL	BNPTTL	-20000831BKG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WSEC	JACKSONVILLE IL	115.8	LIC	BLEDT	-20031031ADN
21	WMEC	MACOMB IL	72.8	LIC	BLEDT	-20031031ADO
23	KCWI-TV	AMES IA	285.2	LIC	BLCDT	-20090612AIO
23	WQPT-TV	MOLINE IL	173.3	LIC	BLEDT	-20030702AAR
23	KOZK	SPRINGFIELD MO	337.3	LIC	BLEDT	-20030911AAS
30	K34CW	KIRKSVILLE MO	113.5	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27	K27CV	OTTUMWA IA	BLTT	-19890518IK

Figure 2

Stations Potentially Affecting This Station						
Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KDMI	DES MOINES IA	139.9	CP MOD	BMPCDT	-20090423ABJ
19	KDMI-DR	DES MOINES IA	139.9	APP	BPRM	-20081219AFT
23	KCWI-TV	AMES IA	139.9	LIC	BLCDT	-20090612AIO
25	KWKB	IOWA CITY IA	121.4	CP	BPCDT	-20080620AFU
25	KWKB	IOWA CITY IA	121.4	LIC	BLCDT	-20070130AJQ
26	NEW	OTTUMWA IA	12.9	APP	BNPDTL	-20101013AAT
27	KFXA	CEDAR RAPIDS IA	127.8	LIC	BLCDT	-20050713ABD
27	KSNT	TOPEKA KS	355.4	LIC	BLCDT	-20090910ABY
34	WQEC	QUINCY IL	143.1	LIC	BLEDT	-20040715ADL
41	KGCW	BURLINGTON IA	134.5	LIC	BLCDT	-20081120ABD
42	K42AM	OTTUMWA IA	9.8	LIC	BLTT	-19980803JD
30	K34CW	KIRKSVILLE MO	83.8	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
27	K27CV	OTTUMWA IA	BPTT	-20100526ACR

Stations Potentially Affecting This Station						
Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KDMI	DES MOINES IA	143.4	CP MOD	BMPCDT	-20090423ABJ
19	KDMI-DR	DES MOINES IA	143.4	APP	BPRM	-20081219AFT
23	KCWI-TV	AMES IA	143.4	LIC	BLCDT	-20090612AIO
25	KWKB	IOWA CITY IA	123.4	CP	BPCDT	-20080620AFU
25	KWKB	IOWA CITY IA	123.4	LIC	BLCDT	-20070130AJQ
26	NEW	OTTUMWA IA	9.1	APP	BNPDTL	-20101013AAT
27	KFXA	CEDAR RAPIDS IA	131.4	LIC	BLCDT	-20050713ABD
27	KSNT	TOPEKA KS	354.2	LIC	BLCDT	-20090910ABY
34	WQEC	QUINCY IL	139.4	LIC	BLEDT	-20040715ADL
41	KGCW	BURLINGTON IA	134.1	LIC	BLCDT	-20081120ABD
42	K42AM	OTTUMWA IA	13.4	LIC	BLTT	-19980803JD
30	K34CW	KIRKSVILLE MO	80.3	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 6

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
29	K29EA	DES MOINES IA	BLTTL	-20011217ADD

Stations Potentially Affecting This Station						
Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
25	KTIN	FORT DODGE IA	145.1	LIC	BLEDT	-20070822ACB
27	KFXA	CEDAR RAPIDS IA	132.6	LIC	BLCDT	-20050713ABD
29	WFTC	MINNEAPOLIS MN	379.0	LIC	BLCDT	-20100809CJF
29	KMBC-DR	KANSAS CITY MO	297.6	APP	BPRM	-20080616AEO
29	KMBC-TV	KANSAS CITY MO	297.6	LIC	BLCDT	-20090618ACY
30	K34CW	KIRKSVILLE MO	179.5	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Figure 2

Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	NEW	COLUMBIA MO	BNPDTL	-20100902ABD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	KLMC-LP	JEFFERSON CITY MO	27.1	CP	BPTTL	-20090824AME
29	KMBC-DR	KANSAS CITY MO	197.8	APP	BPRM	-20080616AEO
29	KMBC-TV	KANSAS CITY MO	197.8	LIC	BLCDT	-20090618ACY
29	K29JF-D	ROLLA MO	104.3	CP	BNPDTL	-20090825BJZ
30	K30JZ	COLUMBIA MO	26.1	CP	BNPTTL	-20000829ALQ
30	K34CW	KIRKSVILLE MO	158.4	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	KMBC-DR	KANSAS CITY MO	BPRM	-20080616AEO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KMBC-TV	KANSAS CITY MO	0.0	LIC	BLCDT	-20090618ACY
30	K34CW	KIRKSVILLE MO	206.8	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	KMBC-TV	KANSAS CITY MO	BLCDT	-20090618ACY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KMBC-DR	KANSAS CITY MO	0.0	APP	BPRM	-20080616AEO
30	K34CW	KIRKSVILLE MO	206.8	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	KHHH-LP	CEDAR RAPIDS IA	BDISDTL	-20110203ADT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	NEW	KEOKUK IA	175.1	APP	BNPDTL	-20101013AAV
30	WCRD-LP	CARTHAGE IL	210.6	CP	BDCCDTL	-20061030AMS
30	WMBD-TV	PEORIA IL	231.4	CP MOD	BMPCDT	-20060314ABP
30	WHLA-TV	LA CROSSE WI	207.4	LIC	BMLEDT	-20041013AAL
30	K34CW	KIRKSVILLE MO	206.9	APP	USERRECORD-01	

Figure 2

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Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record
Channel      Call      City/State      Application Ref. No.
30          NEW      KEOKUK IA      BNPDTL      -20101013AAV

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status Application Ref. No.
30    KHHH-LP    CEDAR RAPIDS IA    175.1  CP      BDISDTL      -20110203ADT
30    WMBD-TV    PEORIA IL          160.8  CP MOD  BMPCDT      -20060314ABP
30    WHLA-TV    LA CROSSE WI       379.4  LIC     BMLEDT      -20041013AAL
30    K34CW      KIRKSVILLE MO      103.0  APP     USERRECORD-01

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 11
Before Analysis

Results for: 30A IA KEOKUK      BNPDTL      20101013AAV APP
HAAT 148.0 m, ATV ERP 10.0 kW
      POPULATION  AREA (sq km)
within Noise Limited Contour 73271 5822.6
not affected by terrain losses 73271 5822.6
lost to NTSC IX 0 0.0
lost to additional IX by ATV 9 8.0
lost to ATV IX only 9 8.0
lost to all IX 9 8.0

Potential Interfering Stations Included in above Scenario 1
30A IL PEORIA      BMPCDT      20060314ABP CP

After Analysis

Results for: 30A IA KEOKUK      BNPDTL      20101013AAV APP
HAAT 148.0 m, ATV ERP 10.0 kW
      POPULATION  AREA (sq km)
within Noise Limited Contour 73271 5822.6
not affected by terrain losses 73271 5822.6
lost to NTSC IX 0 0.0
lost to additional IX by ATV 111 53.0
lost to ATV IX only 111 53.0
lost to all IX 111 53.0

Potential Interfering Stations Included in above Scenario 1
30A IL PEORIA      BMPCDT      20060314ABP CP
30A MO KIRKSVILLE  USERRECORD01 APP

Percent new IX = 0.1392%

Worst case new IX 0.1392% Scenario 1

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Analysis of Interference to Affected Station 12

Analysis of current record
Channel      Call      City/State      Application Ref. No.
30          NEW      SIOUX CITY IA    BNPDTL      -20100217ABP

Stations Potentially Affecting This Station

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Figure 2

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	KCAU-TV	SIOUX CITY IA	8.0	LIC	BLCDT	-20090903AAI
30	K30KQ-D	JACKSON MN	163.8	CP	BNPDTL	-20090825BEE
30	K30FN-D	ST. JAMES MN	227.2	LIC	BLDTL	-20100416AAI
30	K30BP	NORFOLK NE	100.2	LIC	BLTT	-19871015IC
30	K30BP	NORFOLK NE	100.2	CP	BDFCDTT	-20100726AIT
30	K30LV-D	WENTWORTH SD	170.0	CP	BNPDTL	-20100505AEL
30	K34CW	KIRKSVILLE MO	397.5	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	KCAU-TV	SIOUX CITY IA	BLCDT	-20090903AAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	NEW	SIOUX CITY IA	8.0	APP	BNPDTL	-20100217ABP
30	K30KQ-D	JACKSON MN	168.3	CP	BNPDTL	-20090825BEE
30	K30BP	NORFOLK NE	93.9	LIC	BLTT	-19871015IC
30	K30BP	NORFOLK NE	93.9	CP	BDFCDTT	-20100726AIT
30	K34CW	KIRKSVILLE MO	404.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	WCRD-LP	CARTHAGE IL	BDCCDTL	-20061030AMS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	NEW	LA SALLE IL	75.4	APP	BNPDTL	-20100721DRE
30	KHHH-LP	CEDAR RAPIDS IA	210.6	CP	BDISDTL	-20110203ADT
30	WOCK-CD	CHICAGO IL	135.1	APP	BDISDTA	-20100311ABP
30	WDCI-LP	CHICAGO IL	135.7	APP	BDISDTL	-20110224AAV
30	WDCI-LP	ELGIN IL	135.7	APP	BSTA	-20110224AAW
30	WMBD-TV	PEORIA IL	187.2	CP MOD	BMPCDT	-20060314ABP
30	WSPY-LP	PLANO IL	85.7	LIC	BLTTL	-19900514IR
30	WWAZ-TV	COLUMBUS WI	116.6	CP MOD	BMPCDT	-20110104ABE
30	WHLA-TV	LA CROSSE WI	244.8	LIC	BMLEDT	-20041013AAL
30	WPVS-LP	SHEBOYGAN WI	136.4	CP	BDISDTL	-20090911ABD
30	K34CW	KIRKSVILLE MO	368.0	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	W30DK-D	EFFINGHAM IL	BNPDTL	-20100219ABR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	W29CI	SALEM IL	62.1	CP	BDFCDTA	-20090813ADE
30	WMBD-TV	PEORIA IL	197.7	CP MOD	BMPCDT	-20060314ABP
30	WKOI	OWENSBORO KY	169.2	LIC	BLEDT	-20020304ALJ

Figure 2

30	WRGT-TV	DAYTON OH	379.9	LIC	BLCDT	-20050621AAU
30	K34CW	KIRKSVILLE MO	370.2	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	WMBD-TV	PEORIA IL	BMPCDT	-20060314ABP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WMAQ-TV	CHICAGO IL	210.7	LIC	BLCDT	-20010531ACY
30	WKOI	OWENSBORO KY	363.1	LIC	BLEDT	-20020304ALJ
30	WHLA-TV	LA CROSSE WI	383.1	LIC	BMLEDT	-20041013AAL
31	WFLD	CHICAGO IL	210.7	LIC	BLCDT	-20090223ABV
30	K34CW	KIRKSVILLE MO	263.7	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 16
Before Analysis

Results for: 30A IL PEORIA BMPCDT 20060314ABP CP
HAAT 193.0 m, ATV ERP 800.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	711664	19306.2
not affected by terrain losses	711549	19286.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interfering Stations Included in above Scenario 1

After Analysis

Results for: 30A IL PEORIA BMPCDT 20060314ABP CP
HAAT 193.0 m, ATV ERP 800.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	711664	19306.2
not affected by terrain losses	711549	19286.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2	1.0
lost to ATV IX only	2	1.0
lost to all IX	2	1.0

Potential Interfering Stations Included in above Scenario 1

30A MO KIRKSVILLE USERRECORD01 APP

Percent new IX = 0.0003%

Worst case new IX 0.0003% Scenario 1

#####

Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
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Figure 2

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30      WSPY-LP      PLANO IL      BLTTL      -19900514IR

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status Application Ref. No.
27  WCIU-TV  CHICAGO IL      81.5  CP MOD  BMPCDT      -20090105ACO
27  WCIU-TV  CHICAGO IL      81.5  LIC    BLCDT      -20060525ADR
28  WYZZ-TV  BLOOMINGTON IL  124.0  LIC    BLCDT      -20060609ABE
29  WMAQ-TV  CHICAGO IL      81.5  LIC    BLCDT      -20010531ACY
30  WCRD-LP  CARTHAGE IL     85.7  CP     BDCCDTL     -20061030AMS
30  WOCK-CD  CHICAGO IL      83.1  APP    BDISDTA     -20100311ABP
30  WDCI-LP  CHICAGO IL      82.8  APP    BDISDTL     -20110224AAV
30  WDCI-LP  ELGIN IL        82.8  APP    BSTA        -20110224AAW
30  WMBD-TV  PEORIA IL       140.0  CP MOD  BMPCDT      -20060314ABP
30  WHLA-TV  LA CROSSE WI    329.4  LIC    BMLEDT      -20041013AAL
31  WFLD     CHICAGO IL      81.5  LIC    BLCDT      -20090223ABV
38  WGBD-DT  JOLIET IL       83.1  LIC    BLCDT      -20100709AJT
44  WLS-TV   CHICAGO IL      81.5  APP    BMPCDT      -20110331ABW
44  WLS-TV   CHICAGO IL      81.5  CP     BPCDT      -20091001ACI
44  WLS-DR   CHICAGO IL      81.5  APP    BPRM        -20090724AEG
45  WSNS-TV  CHICAGO IL      81.5  LIC    BLCDT      -20010612AIB
45  WSNS-TV  CHICAGO IL      81.5  CP     BPCDT      -20080620AMW
30  K34CW    KIRKSVILLE MO   374.4  APP    USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station  18

Analysis of current record
Channel      Call      City/State      Application Ref. No.
30      K30LZ-D      FORT RILEY KS      BNPDTL      -20100510AFK

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status Application Ref. No.
30  KGBD-LP  GREAT BEND KS    191.8  LIC    BLTT        -20030805AIJ
30  KGBD-LP  GREAT BEND KS    191.8  CP     BDFCDTL     -20090522ABV
30  K30AL-D  IOLA KS          186.5  LIC    BLDTT       -20090226ABD
30  NEW      PAXICO KS        43.0  APP    BNPDTL     -20100514AIC
30  K30LK-D  SALINA KS        89.1  CP     BNPDTL     -20100419ACL
30  NEW      SAINT JOSEPH MO  169.2  APP    BNPDTL     -20100902ABO
31  K31BW    MANHATTAN KS     18.7  LIC    BLTTL       -19890119I1
30  K34CW    KIRKSVILLE MO   371.3  APP    USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station  19

Analysis of current record
Channel      Call      City/State      Application Ref. No.
30      K30AL-D      IOLA KS          BLDTT      -20090226ABD

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status Application Ref. No.
30  K30LZ-D  FORT RILEY KS    186.5  CP     BNPDTL     -20100510AFK
30  NEW      PAXICO KS        158.6  APP    BNPDTL     -20100514AIC
30  KCLJ-LP  JOPLIN MO        115.1  STA    BSTA        -20030422ABP
30  KCLJ-LP  JOPLIN MO        115.1  LIC    BLTTA       -20050506ACG
30  KCLJ-LP  JOPLIN MO        115.2  CP     BDFCDTA     -20100813CAI
30  K34CW    KIRKSVILLE MO   336.8  APP    USERRECORD-01

Proposal causes no interference

```

Figure 2

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#####

Analysis of Interference to Affected Station  20

Analysis of current record
Channel      Call      City/State      Application Ref. No.
  30         NEW        PAXICO KS          BNPDTL      -20100514AIC

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status  Application Ref. No.
  30  K30LZ-D    FORT RILEY KS      43.0  CP    BNPDTL      -20100510AFK
  30  K30AL-D    IOLA KS           158.6  LIC    BLDTT      -20090226ABD
  30  K30LK-D    SALINA KS          131.2  CP    BNPDTL      -20100419ACL
  30  NEW        SAINT JOSEPH MO     139.3  APP    BNPDTL      -20100902ABO
  30  K34CW      KIRKSVILLE MO      331.3  APP    USERRECORD-01
Proposal causes no interference

#####

Analysis of Interference to Affected Station  21

Analysis of current record
Channel      Call      City/State      Application Ref. No.
  30         NEW        ALBERT LEO MN      BNPDTL      -20100510AJS

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status  Application Ref. No.
  29  K29IF-D    FROST MN          42.8  LIC    BLDTL      -20080505ABD
  29  K29IF-D    FROST MN          42.8  CP MOD  BMPDTL      -20080116AAN
  30  K30KQ-D    JACKSON MN         127.0  CP    BNPDTL      -20090825BEE
  30  K30FN-D    ST. JAMES MN       105.1  LIC    BLDTL      -20100416AAI
  30  WHLA-TV    LA CROSSE WI       165.0  LIC    BMLEDT      -20041013AAI
  31  K31EF-D    FROST MN           42.8  LIC    BLDTT      -20090730ACQ
  30  K34CW      KIRKSVILLE MO      390.7  APP    USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station  22

Analysis of current record
Channel      Call      City/State      Application Ref. No.
  30         NEW        CAPE GIRARDEAU MO  BNPDTL      -20100907ACB

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status  Application Ref. No.
  30  NEW        JONESBORO AR       164.4  APP    BNPDTL      -20100519AAK
  30  KLRT-TV    LITTLE ROCK AR     360.2  LIC    BLCDT      -20020507AAK
  30  WMBD-TV    PEORIA IL           372.0  CP MOD  BMPCDT      -20060314ABP
  30  WKOH       OWENSBORO KY        238.5  LIC    BLEDT      -20020304ALJ
  30  W30DC-D    LEXINGTON TN        214.5  CP    BNPDTL      -20090825BAK
  30  K34CW      KIRKSVILLE MO      398.6  APP    USERRECORD-01
Proposal causes no interference

#####

Analysis of Interference to Affected Station  23

Analysis of current record
Channel      Call      City/State      Application Ref. No.
```

Figure 2

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30      K30JZ      COLUMBIA MO      BNPDTL      -20000829ALQ

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status  Application Ref. No.
29    NEW      COLUMBIA MO      26.1  APP    BNPDTL      -20100902ABD
30    WMBD-TV   PEORIA IL        312.8  CP MOD  BMPCDT      -20060314ABP
30    K34CW     KIRKSVILLE MO    140.1  APP    USERRECORD-01
Proposal causes no interference

#####

Analysis of Interference to Affected Station  24

Analysis of current record
Channel  Call      City/State      Application Ref. No.
30      KCLJ-LP   JOPLIN MO      BSTA      -20030422ABP

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status  Application Ref. No.
23    KOZK     SPRINGFIELD MO    128.9  LIC    BLEDT      -20030911AAS
28    KSFX-TV  SPRINGFIELD MO    128.9  LIC    BLCDT      -20070213ABB
30    KEGW-LP   FAYETTEVILLE AR  102.2  APP    BDISDTL    -20100922ABP
30    NEW      FAYETTEVILLE AR  118.4  APP    BNPDTL     -20100205AAN
30    KLRT-TV   LITTLE ROCK AR    303.2  LIC    BLCDT      -20020507AAK
30    NEW      SPRINGDALE AR      97.6  APP    BNPDTL     -20100212ABE
30    K30AL-D   IOLA KS            115.1  LIC    BLDTT      -20090226ABD
31    KWBW     HARRISON AR        124.1  LIC    BLCDT      -20091201ASC
34    KPBI     EUREKA SPRINGS AR  81.2  LIC    BLCDT      -20090825BGM
34    KPBI     EUREKA SPRINGS AR  81.2  CP     BPCDT      -20080620ABE
44    KYTV     SPRINGFIELD MO     129.1  LIC    BLCDT      -20020213AAA
30    K34CW     KIRKSVILLE MO     385.1  APP    USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station  25

Analysis of current record
Channel  Call      City/State      Application Ref. No.
30      KCLJ-LP   JOPLIN MO      BLTTA     -20050506ACG

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status  Application Ref. No.
23    KOZK     SPRINGFIELD MO    128.9  LIC    BLEDT      -20030911AAS
28    KSFX-TV  SPRINGFIELD MO    128.9  LIC    BLCDT      -20070213ABB
30    KEGW-LP   FAYETTEVILLE AR  102.2  APP    BDISDTL    -20100922ABP
30    NEW      FAYETTEVILLE AR  118.4  APP    BNPDTL     -20100205AAN
30    KLRT-TV   LITTLE ROCK AR    303.2  LIC    BLCDT      -20020507AAK
30    NEW      SPRINGDALE AR      97.6  APP    BNPDTL     -20100212ABE
30    K30AL-D   IOLA KS            115.1  LIC    BLDTT      -20090226ABD
31    KWBW     HARRISON AR        124.1  LIC    BLCDT      -20091201ASC
34    KPBI     EUREKA SPRINGS AR  81.2  LIC    BLCDT      -20090825BGM
34    KPBI     EUREKA SPRINGS AR  81.2  CP     BPCDT      -20080620ABE
44    KYTV     SPRINGFIELD MO     129.1  LIC    BLCDT      -20020213AAA
30    K34CW     KIRKSVILLE MO     385.1  APP    USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station  26

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Figure 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
30	KCLJ-LP	JOPLIN MO	BDFCDTA -20100813CAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	K29JJ-D	SPRINGDALE AR	75.5	CP	BNPDTL -20090825BUE
30	KEGW-LP	FAYETTEVILLE AR	102.2	APP	BDISDTL -20100922ABP
30	NEW	FAYETTEVILLE AR	118.4	APP	BNPDTL -20100205AAN
30	KLRT-TV	LITTLE ROCK AR	303.1	LIC	BLCDT -20020507AAK
30	NEW	SPRINGDALE AR	97.5	APP	BNPDTL -20100212ABE
30	K30AL-D	IOLA KS	115.2	LIC	BLDTT -20090226ABD
31	KWBM	HARRISON AR	124.1	LIC	BLCDT -20091201ASC
30	K34CW	KIRKSVILLE MO	385.2	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 27

Analysis of current record

Channel	Call	City/State	Application Ref. No.
30	NEW	SAINT JOSEPH MO	BNPDTL -20100902ABO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	KMBC-DR	KANSAS CITY MO	124.1	APP	BPRM -20080616AEO
29	KMBC-TV	KANSAS CITY MO	124.1	LIC	BLCDT -20090618ACY
30	K30LZ-D	FORT RILEY KS	169.2	CP	BNPDTL -20100510AFK
30	NEW	PAXICO KS	139.3	APP	BNPDTL -20100514AIC
31	KCWE	KANSAS CITY MO	124.1	LIC	BLCDT -20051014ABT
30	K34CW	KIRKSVILLE MO	220.3	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 28

Analysis of current record

Channel	Call	City/State	Application Ref. No.
31	KCCI	DES MOINES IA	BDRTCDT -20090916ABZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
31	KCWE	KANSAS CITY MO	312.3	LIC	BLCDT -20051014ABT
32	K32ID-D	DES MOINES IA	16.4	CP	BDCCDTL -20061030AKM
30	K34CW	KIRKSVILLE MO	195.3	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 29

Analysis of current record

Channel	Call	City/State	Application Ref. No.
31	KCWE	KANSAS CITY MO	BLCDT -20051014ABT

Stations Potentially Affecting This Station

Figure 2

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
31	KWBM	HARRISON AR	293.5	LIC	BLCDT -20091201ASC
31	KDCU-DT	DERBY KS	298.2	LIC	BLCDT -20090821AAM
31	KDCU-DR	DERBY KS	298.2	APP	BPRM -20090219AEY
31	KDNL-TV	ST. LOUIS MO	366.8	LIC	BLCDT -20021216AAE
30	K34CW	KIRKSVILLE MO	206.8	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 30

Analysis of current record

Channel	Call	City/State	Application Ref. No.
34	K34JU-D	COLUMBIA MO	BNPTTL -20000830BKD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
32	WTJR	QUINCY IL	133.9	LIC	BLCDT -20091110ADL
33	NEW	JEFFERSON CITY MO	39.1	APP	BNPDTL -20100208ABF
34	KPBI	EUREKA SPRINGS AR	324.8	LIC	BLCDT -20090825BGM
34	KPBI	EUREKA SPRINGS AR	324.8	CP	BPCDT -20080620ABE
34	KEFB	AMES IA	352.1	CP	BPEDT -20080808ABH
34	KQIN	DAVENPORT IA	301.9	LIC	BLEDT -20080620AFY
34	KQIN	DAVENPORT IA	301.9	CP	BPEDT -20080620AIO
34	WSIL-TV	HARRISBURG IL	335.1	LIC	BLCDT -20080718AAR
34	WQEC	QUINCY IL	135.4	LIC	BLEDT -20040715ADL
34	WDAF-TV	KANSAS CITY MO	200.4	LIC	BLCDT -20091008AAW
34	K34KX-D	ROLLA MO	124.2	CP	BNPDTL -20090825BKD
49	KRBK	OSAGE BEACH MO	139.1	LIC	BLCDT -20090805AAX
30	K34CW	KIRKSVILLE MO	137.8	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 31

Analysis of current record

Channel	Call	City/State	Application Ref. No.
34	K34CW	KIRKSVILLE MO	BLTT -19981210JB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
32	WTJR	QUINCY IL	112.6	LIC	BLCDT -20091110ADL
33	KTVO	KIRKSVILLE MO	36.5	LIC	BLCDT -20030604AAC
34	KEFB	AMES IA	216.6	CP	BPEDT -20080808ABH
34	KQIN	DAVENPORT IA	223.1	LIC	BLEDT -20080620AFY
34	KQIN	DAVENPORT IA	223.1	CP	BPEDT -20080620AIO
34	WQEC	QUINCY IL	114.0	LIC	BLEDT -20040715ADL
34	WDAF-TV	KANSAS CITY MO	213.0	LIC	BLCDT -20091008AAW
30	K34CW	KIRKSVILLE MO	0.0	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 32

Analysis of current record

Channel	Call	City/State	Application Ref. No.
30	K34CW	KIRKSVILLE MO	USERRECORD-01

Stations Potentially Affecting This Station

Figure 2

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	KHHH-LP	CEDAR RAPIDS IA	206.9	CP	BDISDTL	-20110203ADT
30	NEW	KEOKUK IA	103.0	APP	BNPDTL	-20101013AAV
30	WMBD-TV	PEORIA IL	263.7	CP MOD	BMPCDT	-20060314ABP
30	K30JZ	COLUMBIA MO	140.1	CP	BNPTTL	-20000829ALQ

Total scenarios = 1

Result key: 3
Scenario 1 Affected station 32
Before Analysis

Results for: 30A MO KIRKSVILLE USERRECORD01 APP
HAAT 151.0 m, ATV ERP 8.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	46730	6243.5
not affected by terrain losses	46730	6243.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interfering Stations Included in above Scenario 1

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED