

ENGINEERING STATEMENT

Request for Special Temporary Authorization Early Digital Transition prepared for

Gray Television Licensee, LLC
WBKO-DT Bowling Green, KY
Facility ID 4692
Ch. 13 22 kW 221 m

Gray Television Licensee, LLC (“Gray”) is the licensee of television station WBKO, analog Channel 13 and digital Channel 33, Bowling Green, KY. This statement supports *Gray*’s request for Special Temporary Authority (“STA”) to modify the WBKO-DT early transition facility. WBKO-DT has commenced operation on its post-transition digital channel during the pre-transition period. This statement certifies compliance with coverage and interference criteria as specified in the Report and Order in the Third Periodic Review¹ for an early transition.

A Construction Permit (“CP” BMPCDT-20080611AAQ) authorizes WBKO-DT to operate its post-transition digital facility on Channel 13, the station’s assigned analog channel. The authorized post-transition digital operation is a “maximized” facility and involves an effective radiated power (“ERP”) of 22 kW at 221 meters antenna height above average terrain (“HAAT”), with a nondirectional antenna.

WBKO has already terminated analog operation, and is presently operating on digital Channel 13 pursuant to an STA for early transition (BLDSTA-20081205AEL). The current STA facility operates with the facilities as authorized in the CP except that the power is reduced to 52.7 percent (11.6 kW). Now, the necessary modifications to the WBKO-DT transmitter are

¹*Third Periodic Review of the Commission’s Rules and Policies Affecting the Conversion to Digital Television*, MB Docket No. 07-91, FCC 07-228, released December 31, 2007.

complete such that full power operation can be achieved, at 22 kW ERP. As proposed herein, this STA request specifies the exact facilities as authorized in the CP (22 kW ERP and 221 m HAAT).

A contour comparison map is supplied as **Figure 1**, showing that coverage areas associated with the former analog Channel 13 and digital Channel 33 facilities will be completely encompassed by the proposed digital Channel 13 operation. Population counts for the various WBKO TV/DT facilities are summarized below as determined using OET Bulletin 69² analysis. The proposed early transition STA facility will provide a service population exceeding those of the prior analog and pre-transition digital facilities.

Population Summary

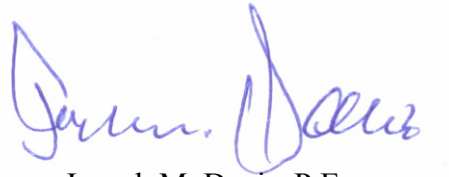
WBKO TV/DT Facility	Interference-Free Population (2000 Census)
Prior Analog Ch. 13 (BLCT-20040818ABR)	527,969
Pre-Transition Digital Ch. 33 (BLCDT-20060303AAC)	452,599
Proposed STA Digital Ch. 13 (BMPCDT-20080611AAQ)	665,144

A detailed interference study per OET Bulletin 69 shows that the proposal complies with the Commission's 2% / 10% *de minimis* interference limits for operation during the transition, as demonstrated in **Table 1**. The 0.5 percent protection standard to post-transition stations is also satisfied as demonstrated in the application and associated interference agreements underlying the grant of BMPCDT-20080611AAQ. Thus, existing viewers will be served and impermissible interference will not be caused.

The proposed STA operation complies with the FCC's limits concerning human exposure to RF energy, as described in the application underlying BMPCDT-20080611AAQ.

²FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). A standard cell size of 2 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission's implementation of OET-69 show excellent correlation.

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.



Joseph M. Davis, P.E.
March 23, 2009

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List of Attachments

Figure 1	STA Coverage Contour Comparison
Table 1	Pre-Transition OET Bulletin 69 Interference Study

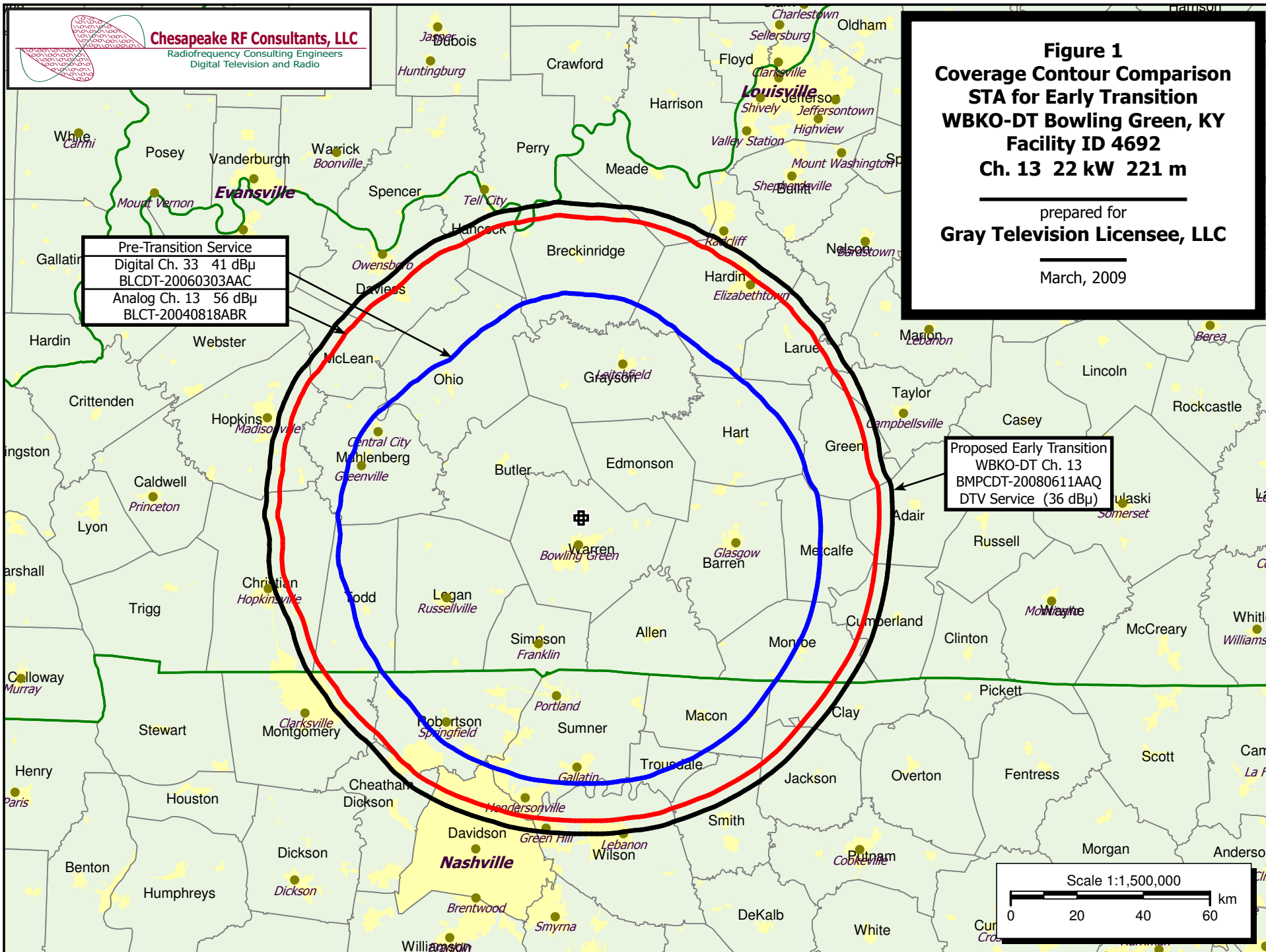


Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 1 of 20)

Census data selected 1990

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-23-2009 Time: 10:28:07

Record Selected for Analysis

WBKO-DT USERRECORD-01 BOWLING GREEN KY US
Channel 13 ERP 22. kW HAAT 220. m RCAMSL 00391 m
Latitude 037-03-49 Longitude 0086-26-07
Status APP Zone 2 Border
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	22.000	222.6	94.2
45.0	22.000	206.1	92.7
90.0	22.000	214.2	93.4
135.0	22.000	229.0	94.7
180.0	22.000	231.0	94.9
225.0	22.000	209.4	93.0
270.0	22.000	228.9	94.7
315.0	22.000	215.4	93.5

Evaluation toward Class A Stations

Contour overlap to Class A station
WBXV-CA 13 LOUISVILLE KY BLTVA 20050202ABW

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite 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

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 2 of 20)

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
13	WBKO-DT	BOWLING GREEN KY	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WNIN-DR	EVANSVILLE IN	134.4	LIC	BPRM	-20000328AAW
12	WNIN	EVANSVILLE IN	126.0	LIC	BML EDT	-20041112ABH
13	WVTM-TV	BIRMINGHAM AL	398.5	LIC	BLCT	-19801209KE
13	WVTM-TV	BIRMINGHAM AL	398.5	CP MOD	BMPCDT	-20080410AAY
13	WPXS	MT. VERNON IL	273.6	LIC	BMLCT	-19990119KG
13	WTHR	INDIANAPOLIS IN	319.2	LIC	BLCT	-19840626KE
13	WKYT-TV	LEXINGTON KY	209.4	LIC	BPRM	-20000419AAF
13	WKYT-TV	LEXINGTON KY	209.4	LIC	BLCDT	-20021025AAO
13	WBXV-CA	LOUISVILLE KY	153.9	LIC	BLTVA	-20050202ABW
13	WLOS	ASHEVILLE NC	376.6	LIC	BLCT	-2599
13	WRCB-TV	CHATTANOOGA TN	234.2	LIC	BLCDT	-20041027ADA
13	WRCB-TV	CHATTANOOGA TN	234.2	LIC	BPRM	-20000328AAG
13	WLLP-CA	LAWRENCEBURG TN	230.4	LIC	BLTVA	-20050314AHH
13	WHBQ-TV	MEMPHIS TN	371.2	LIC	BMLCT	-20041029AII
13	WHBQ-TV	MEMPHIS TN	371.2	CP MOD	BMPCDT	-20080618AEE
13	WOWK-TV	HUNTINGTON WV	404.3	CP	BMPCDT	-20080620AJA
13	WOWK-TV	HUNTINGTON WV	404.3	LIC	BLCT	-200212220ADY

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WNIN-DR	EVANSVILLE IN	BPRM	-20000328AAW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WHAS-TV	LOUISVILLE KY	137.3	LIC	BLCT	-19820811KF
11	WHAS-TV	LOUISVILLE KY	137.3	APP	BSTA	-20080612ABS
12	WILL-TV	URBANA IL	250.7	LIC	BLET	-155
12	WYMT-TV	HAZARD KY	379.5	LIC	BLCDT	-20040109ACY
12	WYMT-DT	HAZARD KY	379.5	PLN	DTVPLN	-DTVVP0101
12	KFVS-TV	CAPE GIRARDEAU MO	199.6	LIC	BLCT	-1070
12	KRCG-DT	JEFFERSON CITY MO	419.1	PLN	DTVPLN	-DTVVP0102
12	WKRC-TV	CINCINNATI OH	276.6	LIC	BMLCT	-19860814KF
13	WPXS	MT. VERNON IL	148.0	LIC	BMLCT	-19990119KG
13	WBKO	BOWLING GREEN KY	134.3	PLN	DTVPLN	-NPLN0833
13	WBKO-DT	BOWLING GREEN KY	134.4	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 12A IN EVANSVILLE BPRM 20000328AAW LIC
HAAT 175.0 m, ATV ERP 15.0 kW

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 3 of 20)

	POPULATION	AREA (sq km)
within Noise Limited Contour	680453	19598.3
not affected by terrain losses	667866	18497.5
lost to NTSC IX	68498	1981.4
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	68498	1981.4

Potential Interfering Stations Included in above Scenario 1

12N IL URBANA	BLET	155	LIC
12N MO CAPE GIRARDEAU	BLCT	1070	LIC
12N OH CINCINNATI	BMLCT	19860814KF	LIC

After Analysis

Results for: 12A IN EVANSVILLE	BPRM	20000328AAW	LIC
HAAT 175.0 m, ATV ERP 15.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	680453	19598.3	
not affected by terrain losses	667866	18497.5	
lost to NTSC IX	68498	1981.4	
lost to additional IX by ATV	0	0.0	
lost to ATV IX only	13	4.0	
lost to all IX	68498	1981.4	

Potential Interfering Stations Included in above Scenario 1

12N IL URBANA	BLET	155	LIC
12N MO CAPE GIRARDEAU	BLCT	1070	LIC
12N OH CINCINNATI	BMLCT	19860814KF	LIC
13A KY BOWLING GREEN	USERRECORD01	APP	

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
12	WNIN	EVANSVILLE IN	BMLEDT -20041112ABH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
11	WHAS-TV	LOUISVILLE KY	131.0	LIC	BLCT -19820811KF
11	WHAS-TV	LOUISVILLE KY	131.0	APP	BSTA -20080612ABS
12	WILL-TV	URBANA IL	258.4	LIC	BLET -155
12	WYMT-TV	HAZARD KY	370.7	LIC	BLCDT -20040109ACY
12	WYMT-DT	HAZARD KY	370.7	PLN	DTVPLN -DTVPO101
12	KFVS-TV	CAPE GIRARDEAU MO	205.8	LIC	BLCT -1070
12	KRCG-DT	JEFFERSON CITY MO	427.9	PLN	DTVPLN -DTVPO102
12	WKRC-TV	CINCINNATI OH	271.6	LIC	BMLCT -19860814KF
13	WPXS	MT. VERNON IL	157.2	LIC	BMLCT -19990119KG
13	WBKO	BOWLING GREEN KY	125.9	PLN	DTVPLN -NPLN0833
13	WBKO-DT	BOWLING GREEN KY	126.0	APP	USERRECORD-01

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 4 of 20)

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 2
Before Analysis

Results for: 12A IN EVANSVILLE	BMLEDT	20041112ABH	LIC
HAAT 285.0 m, ATV ERP 30.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	782386	26632.7	
not affected by terrain losses	767206	25623.9	
lost to NTSC IX	26183	1993.6	
lost to additional IX by ATV	86	4.0	
lost to ATV IX only	1019	56.0	
lost to all IX	26269	1997.6	

Potential Interfering Stations Included in above Scenario 1

12N IL URBANA	BLET	155	LIC
12N MO CAPE GIRARDEAU	BLCT	1070	LIC
12N OH CINCINNATI	BMLCT	19860814KF	LIC
12A KY HAZARD	BLCDT	20040109ACY	LIC
13N KY BOWLING GREEN	DTVPLN	NPLN0833	PLN

After Analysis

Results for: 12A IN EVANSVILLE	BMLEDT	20041112ABH	LIC
HAAT 285.0 m, ATV ERP 30.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	782386	26632.7	
not affected by terrain losses	767206	25623.9	
lost to NTSC IX	26107	1989.5	
lost to additional IX by ATV	1588	120.1	
lost to ATV IX only	3170	232.2	
lost to all IX	27695	2109.6	

Potential Interfering Stations Included in above Scenario 1

12N IL URBANA	BLET	155	LIC
12N MO CAPE GIRARDEAU	BLCT	1070	LIC
12N OH CINCINNATI	BMLCT	19860814KF	LIC
12A KY HAZARD	BLCDT	20040109ACY	LIC
13A KY BOWLING GREEN	USERRECORD01	APP	

Percent new IX = 0.1925%

Worst case new IX 0.1925% Scenario 1

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Analysis of Interference to Affected Station 3

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
13	WVTMTV	BIRMINGHAM AL	DTVPLN -NPLN0812

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
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Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 20)

12	WSFA	MONTGOMERY AL	178.5	PLN	DTVPLN	-NPLN0752
13	WMBB	PANAMA CITY FL	373.2	PLN	DTVPLN	-NPLN0821
13	WMAZTV	MACON GA	312.3	PLN	DTVPLN	-NPLN0823
13	WBKO	BOWLING GREEN KY	398.6	PLN	DTVPLN	-NPLN0833
13	WLOXTV	BILOXI MS	375.8	PLN	DTVPLN	-NPLN0842
13	WHBQTV	MEMPHIS TN	336.6	PLN	DTVPLN	-NPLN0864

Results for: 13N AL BIRMINGHAM			DTVPLN	NPLN0812	PLN
			POPULATION	AREA (sq km)	
within Noise Limited Contour			1610782	34954.9	
not affected by terrain losses			1505100	31138.2	
lost to NTSC IX			40195	2027.2	
lost to additional IX by ATV			0	0.0	
lost to all IX			40195	2027.2	

Analysis of current record					
Channel	Call	City/State	Application Ref. No.		
13	WVTM-TV	BIRMINGHAM AL	BLCT	-19801209KE	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WSFA	MONTGOMERY AL	178.5	LIC	BLCT -2576
13	NEW	MONTGOMERY AL	134.1	APP	BNPET -20020430AAC
13	WMAZ-TV	MACON GA	312.3	LIC	BLCT -2397
13	WLOX	BILOXI MS	375.9	LIC	BLCT -1455
13	WRCB-TV	CHATTANOOGA TN	230.2	LIC	BLCDT -20041027ADA
13	WRCBTV	CHATTANOOGA TN	230.2	LIC	BPRM -20000328AAG
13	WHBQ-TV	MEMPHIS TN	336.6	LIC	BMLCT -20041029AII
13	WHBQ-TV	MEMPHIS TN	336.6	CP MOD	BMPCDT -20080618AEE
13	WBKO-DT	BOWLING GREEN KY	398.5	APP	USERRECORD-01
Proposal causes no interference					

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Analysis of Interference to Affected Station 4

Analysis of current record					
Channel	Call	City/State	Application Ref. No.		
13	WVTM-TV	BIRMINGHAM AL	BMPCDT	-20080410AAY	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WSFA	MONTGOMERY AL	178.5	LIC	BLCT -2576
13	NEW	MONTGOMERY AL	134.1	APP	BNPET -20020430AAC
13	WMAZ-TV	MACON GA	312.3	LIC	BLCT -2397
13	WBKO	BOWLING GREEN KY	398.6	PLN	DTVPLN -NPLN0833
13	WLOX	BILOXI MS	375.9	LIC	BLCT -1455
13	WLOS	ASHEVILLE NC	428.1	LIC	BLCT -2599
13	WRCB-TV	CHATTANOOGA TN	230.2	LIC	BLCDT -20041027ADA
13	WRCBTV	CHATTANOOGA TN	230.2	LIC	BPRM -20000328AAG
13	WHBQ-TV	MEMPHIS TN	336.6	LIC	BMLCT -20041029AII
13	WHBQ-TV	MEMPHIS TN	336.6	CP MOD	BMPCDT -20080618AEE
13	WBKO-DT	BOWLING GREEN KY	398.5	APP	USERRECORD-01
Proposal causes no interference					

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Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 20)

Analysis of Interference to Affected Station 5

Analysis of current record					
Channel	Call	City/State	Application Ref. No.		
13	WPXS	MT. VERNON IL	BMLCT	-19990119KG	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WILL-TV	URBANA IL	167.5	LIC	BLET -155
12	WNIN-DR	EVANSVILLE IN	148.0	LIC	BPRM -20000328AAW
12	WNIN	EVANSVILLE IN	157.2	LIC	BMLDT -20041112ABH
12	KFVS-TV	CAPE GIRARDEAU MO	133.9	LIC	BLCT -1070
13	WREX-TV	ROCKFORD IL	418.0	LIC	BLCT -1372
13	WREX-TV	ROCKFORD IL	418.0	CP	BPCDT -20080328AAM
13	WTHR	INDIANAPOLIS IN	281.8	LIC	BLCT -19840626KE
13	WKYT-TV	LEXINGTON KY	398.3	LIC	BPRM -20000419AAF
13	WKYT-TV	LEXINGTON KY	398.3	LIC	BLCDT -20021025AAO
13	KRCG	JEFFERSON CITY MO	275.9	LIC	BMLCT -20041028AGR
13	WHBQ-TV	MEMPHIS TN	383.4	LIC	BMLCT -20041029AII
13	WHBQ-TV	MEMPHIS TN	383.4	CP MOD	BMPCDT -20080618AEE
13	WBKO-DT	BOWLING GREEN KY	273.6	APP	USERRECORD-01

Total scenarios = 1

Result key:	3
Scenario	1 Affected station 5
Before Analysis	

Results for: 13N IL MT. VERNON			BMLCT	19990119KG	LIC
			POPULATION	AREA (sq km)	
within Noise Limited Contour			707501	28276.1	
not affected by terrain losses			701052	27970.4	
lost to NTSC IX			258848	6447.6	
lost to additional IX by ATV			0	0.0	
lost to all IX			258848	6447.6	

Potential Interfering Stations Included in above Scenario 1

12N IL URBANA	BLET	155	LIC
12N MO CAPE GIRARDEAU	BLCT	1070	LIC
13N IN INDIANAPOLIS	BLCT	19840626KE	LIC
13N MO JEFFERSON CITY	BMLCT	20041028AGR	LIC

After Analysis

Results for: 13N IL MT. VERNON			BMLCT	19990119KG	LIC
			POPULATION	AREA (sq km)	
within Noise Limited Contour			707501	28276.1	
not affected by terrain losses			701052	27970.4	
lost to NTSC IX			258848	6447.6	
lost to additional IX by ATV			4868	382.1	
lost to all IX			263716	6829.7	

Potential Interfering Stations Included in above Scenario 1

12N IL URBANA	BLET	155	LIC
12N MO CAPE GIRARDEAU	BLCT	1070	LIC
13N IN INDIANAPOLIS	BLCT	19840626KE	LIC
13N MO JEFFERSON CITY	BMLCT	20041028AGR	LIC

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 7 of 20)

13A KY BOWLING GREEN USERRECORD01 APP

Percent new IX = 0.6881%

Worst case new IX 0.6881% Scenario 1

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Analysis of Interference to Affected Station 6

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
13	WTHR	INDIANAPOLIS IN	DTVPLN	-NPLN0830

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WILLTV	URBANA IL	212.2	PLN	DTVPLN	-NPLN0765
12	WINM-DT	ANGOLA IN	205.6	PLN	DTVPLN	-DTVP0100
12	WKRC-TV	CINCINNATI OH	170.0	PLN	DTVPLN	-NPLN0787
13	WCEE	MOUNT VERNON IL	281.8	PLN	DTVPLN	-NPLN0828
13	WREX-TV	ROCKFORD IL	367.2	PLN	DTVPLN	-NPLN0829
13	WBKO	BOWLING GREEN KY	319.1	PLN	DTVPLN	-NPLN0833
13	WZZMTV	GRAND RAPIDS MI	376.4	PLN	DTVPLN	-NPLN0838
13	WSYX-DT	COLUMBUS OH	269.4	PLN	DTVPLN	-DTVP0116
13	WTVG	TOLEDO OH	303.8	PLN	DTVPLN	-NPLN0855
13	WOWKTV	HUNTINGTON WV	376.8	PLN	DTVPLN	-NPLN0875

Results for: 13N IN INDIANAPOLIS	DTVPLN	NPLN0830	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	2322604	28288.3	
not affected by terrain losses	2232560	26887.1	
lost to NTSC IX	179344	3900.3	
lost to additional IX by ATV	1012	79.8	
lost to all IX	180356	3980.2	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WTHR	INDIANAPOLIS IN	BLCT	-19840626KE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WILL-TV	URBANA IL	212.2	LIC	BLET	-155
12	WINM	ANGOLA IN	205.6	LIC	BLCDT	-20021025AAN
12	WINM-DT	ANGOLA IN	205.6	PLN	DTVPLN	-DTVP0100
12	WKRC-TV	CINCINNATI OH	170.0	LIC	BMLCT	-19860814KF
13	WPXS	MT. VERNON IL	281.8	LIC	BMLCT	-19990119KG
13	WREX-TV	ROCKFORD IL	367.2	LIC	BLCT	-1372
13	WREX-TV	ROCKFORD IL	367.2	CP	BPCDT	-20080328AAM
13	WKYTTV	LEXINGTON KY	260.2	LIC	BPRM	-20000419AAF
13	WKYT-TV	LEXINGTON KY	260.2	LIC	BLCDT	-20021025AAO
13	WZZM-TV	GRAND RAPIDS MI	376.5	LIC	BLCT	-20020717AAQ
13	WSYX	COLUMBUS OH	269.4	LIC	BLCDT	-20030801AXM
13	WSYX-DT	COLUMBUS OH	269.4	PLN	DTVPLN	-DTVP0116
13	WTVG	TOLEDO OH	303.8	LIC	BLCT	-20020808ACN
13	WOWK-TV	HUNTINGTON WV	376.9	CP	BMPCDT	-20080620AJA
13	WOWK-TV	HUNTINGTON WV	376.9	LIC	BLCT	-20021220ADY
13	WBKO-DT	BOWLING GREEN KY	319.2	APP	USERRECORD-01	

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 8 of 20)

Total scenarios = 4

Result key: 6

Scenario 3 Affected station 6
Before Analysis

Results for: 13N IN INDIANAPOLIS	BLCT	19840626KE	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	2322604	28288.3	
not affected by terrain losses	2232560	26887.1	
lost to NTSC IX	165212	3728.7	
lost to additional IX by ATV	4249	259.5	
lost to all IX	169461	3988.1	

Potential Interfering Stations Included in above Scenario 3

12N OH CINCINNATI	BMLCT	19860814KF	LIC
13N IL MT. VERNON	BMLCT	19990119KG	LIC
13N IL ROCKFORD	BLCT	1372	LIC
13N MI GRAND RAPIDS	BLCT	20020717AAQ	LIC
13N OH TOLEDO	BLCT	20020808ACN	LIC
13N WV HUNTINGTON	BLCT	20021220ADY	LIC
13A KY LEXINGTON	BLCDT	20021025AAO	LIC
13A OH COLUMBUS	BLCDT	20030801AXM	LIC

After Analysis

Results for: 13N IN INDIANAPOLIS	BLCT	19840626KE	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	2322604	28288.3	
not affected by terrain losses	2232560	26887.1	
lost to NTSC IX	165212	3728.7	
lost to additional IX by ATV	7726	279.4	
lost to all IX	172938	4008.1	

Potential Interfering Stations Included in above Scenario 3

12N OH CINCINNATI	BMLCT	19860814KF	LIC
13N IL MT. VERNON	BMLCT	19990119KG	LIC
13N IL ROCKFORD	BLCT	1372	LIC
13N MI GRAND RAPIDS	BLCT	20020717AAQ	LIC
13N OH TOLEDO	BLCT	20020808ACN	LIC
13N WV HUNTINGTON	BLCT	20021220ADY	LIC
13A KY LEXINGTON	BLCDT	20021025AAO	LIC
13A OH COLUMBUS	BLCDT	20030801AXM	LIC
13A KY BOWLING GREEN	USERRECORD01	APP	

Percent new IX = 0.1497%

Worst case new IX 0.1497% Scenario 3

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WKYTTV	LEXINGTON KY	BPRM	-20000419AAF

Stations Potentially Affecting This Station

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 9 of 20)

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WYMT-TV	HAZARD KY	142.9	LIC	BLCDDT -20040109ACY
12	WYMT-DT	HAZARD KY	142.9	PLN	DTVPLN -DTVP0101
12	WKRC-TV	CINCINNATI OH	120.0	LIC	BMLCT -19860814KF
13	WPXS	MT. VERNON IL	398.3	LIC	BMLCT -19990119KG
13	WTHR	INDIANAPOLIS IN	260.2	LIC	BLCT -19840626KE
13	WBKO	BOWLING GREEN KY	209.3	PLN	DTVPLN -NPLN0833
13	WLOS	ASHEVILLE NC	325.4	LIC	BLCT -2599
13	WSYX	COLUMBUS OH	242.3	LIC	BLCDDT -20030801AXM
13	WSYX-DT	COLUMBUS OH	242.4	PLN	DTVPLN -DTVP0116
13	WTVG	TOLEDO OH	413.7	LIC	BLCT -20020808ACN
13	WRCB-TV	CHATTANOOGA TN	330.1	LIC	BLCDDT -20041027ADA
13	WRCBTV	CHATTANOOGA TN	330.1	LIC	BPRM -20000328AAG
13	WSET-TV	LYNCHBURG VA	427.0	LIC	BLCT -19820202KE
13	WSET-TV	LYNCHBURG VA	427.0	APP	BSTA -20090224ABG
13	WOWK-TV	HUNTINGTON WV	198.3	CP	BMPCDDT -20080620AJA
13	WOWK-TV	HUNTINGTON WV	198.3	LIC	BLCT -20021220ADY
13	WBKO-DT	BOWLING GREEN KY	209.4	APP	USERRECORD-01

Total scenarios = 4

Result key: 8
Scenario 1 Affected station 7
Before Analysis

Results for: 13A KY LEXINGTON	BPRM	20000419AAF	LIC
HAAT 300.0 m, ATV ERP 5.0 kW	POPULATION	AREA (sq km)	
within Noise Limited Contour	802664	23835.5	
not affected by terrain losses	781404	22575.1	
lost to NTSC IX	19455	1128.4	
lost to additional IX by ATV	6308	392.1	
lost to ATV IX only	18955	1024.3	
lost to all IX	25763	1520.5	

Potential Interfering Stations Included in above Scenario 1

12N OH CINCINNATI	BMLCT	19860814KF	LIC
13N IN INDIANAPOLIS	BLCT	19840626KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13N WV HUNTINGTON	BLCT	20021220ADY	LIC
12A KY HAZARD	BLCDDT	20040109ACY	LIC
13A OH COLUMBUS	BLCDDT	20030801AXM	LIC
13A TN CHATTANOOGA	BLCDDT	20041027ADA	LIC
13A WV HUNTINGTON	BMPCDDT	20080620AJA	CP
13N KY BOWLING GREEN	DTVPLN	NPLN0833	PLN

After Analysis

Results for: 13A KY LEXINGTON	BPRM	20000419AAF	LIC
HAAT 300.0 m, ATV ERP 5.0 kW	POPULATION	AREA (sq km)	
within Noise Limited Contour	802664	23835.5	
not affected by terrain losses	781404	22575.1	
lost to NTSC IX	15696	872.3	
lost to additional IX by ATV	10170	656.2	
lost to ATV IX only	24194	1352.4	
lost to all IX	25866	1528.5	

Potential Interfering Stations Included in above Scenario 1

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 10 of 20)

12N OH CINCINNATI	BMLCT	19860814KF	LIC
13N IN INDIANAPOLIS	BLCT	19840626KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13N WV HUNTINGTON	BLCT	20021220ADY	LIC
12A KY HAZARD	BLCDDT	20040109ACY	LIC
13A OH COLUMBUS	BLCDDT	20030801AXM	LIC
13A TN CHATTANOOGA	BLCDDT	20041027ADA	LIC
13A WV HUNTINGTON	BMPCDDT	20080620AJA	CP
13A KY BOWLING GREEN	USERRECORD01		APP

Percent new IX = 0.0136%

Worst case new IX 0.0136% Scenario 1

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Analysis of Interference to Affected Station 8

Analysis of current record
Channel 13 Call WKYT-TV City/State LEXINGTON KY Application Ref. No. BLCDDT -20021025AAO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WYMT-TV	HAZARD KY	142.9	LIC	BLCDDT -20040109ACY
12	WYMT-DT	HAZARD KY	142.9	PLN	DTVPLN -DTVP0101
12	WKRC-TV	CINCINNATI OH	120.0	LIC	BMLCT -19860814KF
13	WPXS	MT. VERNON IL	398.3	LIC	BMLCT -19990119KG
13	WTHR	INDIANAPOLIS IN	260.2	LIC	BLCT -19840626KE
13	WBKO	BOWLING GREEN KY	209.3	PLN	DTVPLN -NPLN0833
13	WLOS	ASHEVILLE NC	325.4	LIC	BLCT -2599
13	WSYX	COLUMBUS OH	242.3	LIC	BLCDDT -20030801AXM
13	WSYX-DT	COLUMBUS OH	242.4	PLN	DTVPLN -DTVP0116
13	WTVG	TOLEDO OH	413.7	LIC	BLCT -20020808ACN
13	WRCB-TV	CHATTANOOGA TN	330.1	LIC	BLCDDT -20041027ADA
13	WRCBTV	CHATTANOOGA TN	330.1	LIC	BPRM -20000328AAG
13	WSET-TV	LYNCHBURG VA	427.0	LIC	BLCT -19820202KE
13	WSET-TV	LYNCHBURG VA	427.0	APP	BSTA -20090224ABG
13	WOWK-TV	HUNTINGTON WV	198.3	CP	BMPCDDT -20080620AJA
13	WOWK-TV	HUNTINGTON WV	198.3	LIC	BLCT -20021220ADY
13	WBKO-DT	BOWLING GREEN KY	209.4	APP	USERRECORD-01

Total scenarios = 4

Result key: 14
Scenario 3 Affected station 8
Before Analysis

Results for: 13A KY LEXINGTON	BLCDDT	20021025AAO	LIC
HAAT 282.0 m, ATV ERP 30.0 kW	POPULATION	AREA (sq km)	
within Noise Limited Contour	854443	27200.8	
not affected by terrain losses	816712	25471.2	
lost to NTSC IX	24614	1473.3	
lost to additional IX by ATV	3600	276.3	
lost to ATV IX only	19663	1197.1	
lost to all IX	28214	1749.6	

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 11 of 20)

Potential Interfering Stations Included in above Scenario 3

13N IN INDIANAPOLIS	BLCT	19840626KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13N WV HUNTINGTON	BLCT	20021220ADY	LIC
12A KY HAZARD	BLCDT	20040109ACY	LIC
13A OH COLUMBUS	DTVPLN	DTVP0116	PLN
13A TN CHATTANOOGA	BLCDT	20041027ADA	LIC
13A WV HUNTINGTON	BMPCDT	20080620AJA	CP
13N KY BOWLING GREEN	DTVPLN	NPLN0833	PLN

After Analysis

Results for: 13A KY LEXINGTON BLC DT 20021025AAO LIC
HAAT 282.0 m, ATV ERP 30.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	854443	27200.8
not affected by terrain losses	816712	25471.2
lost to NTSC IX	20308	1189.1
lost to additional IX by ATV	7901	556.5
lost to ATV IX only	25863	1573.4
lost to all IX	28209	1745.6

Potential Interfering Stations Included in above Scenario 3

13N IN INDIANAPOLIS	BLCT	19840626KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13N WV HUNTINGTON	BLCT	20021220ADY	LIC
12A KY HAZARD	BLCDT	20040109ACY	LIC
13A OH COLUMBUS	DTVPLN	DTVP0116	PLN
13A TN CHATTANOOGA	BLCDT	20041027ADA	LIC
13A WV HUNTINGTON	BMPCDT	20080620AJA	CP
13A KY BOWLING GREEN	USERRECORD01	APP	

Percent new IX = -0.0006%

Worst case new IX -0.0006% Scenario 3

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	WBXV-CA	LOUISVILLE KY	BLTVA -20050202ABW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WNIN	EVANSVILLE IN	132.0	LIC	BML EDT -20041112ABH
13	WPXS	MT. VERNON IL	269.1	LIC	BMLCT -19990119KG
13	WTHR	INDIANAPOLIS IN	176.2	LIC	BLCT -19840626KE
13	WKYT-TV	LEXINGTON KY	130.6	LIC	BPRM -20000419AAF
13	WKYT-TV	LEXINGTON KY	130.6	LIC	BLCDT -20021025AAO
13	WSYX	COLUMBUS OH	299.2	LIC	BLCDT -20030801AXM
13	WSYX-DT	COLUMBUS OH	299.3	PLN	DTVPLN -DTVP0116
13	WRCB-TV	CHATTANOOGA TN	359.2	LIC	BLCDT -20041027ADA
13	WRCBTV	CHATTANOOGA TN	359.2	LIC	BPRM -20000328AAG
13	WOWK-TV	HUNTINGTON WV	316.5	CP	BMPCDT -20080620AJA
13	WOWK-TV	HUNTINGTON WV	316.5	LIC	BLCT -20021220ADY

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 12 of 20)

13 WBKO-DT BOWLING GREEN KY 153.9 APP USERRECORD-01
Proposal causes no interference

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Analysis of Interference to Affected Station 10

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
13	WLOS	ASHEVILLE NC	DTVPLN -NPLN0845

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WYMT-DT	HAZARD KY	200.2	PLN	DTVPLN -DTVP0101
13	WMAZ-TV	MACON GA	306.1	PLN	DTVPLN -NPLN0823
13	WBKO	BOWLING GREEN KY	376.7	PLN	DTVPLN -NPLN0833
13	WBTW	FLORENCE SC	334.4	PLN	DTVPLN -NPLN0861
13	WSETTV	LYNCHBURG VA	349.5	PLN	DTVPLN -NPLN0872
13	WOWKTV	HUNTINGTON WV	345.8	PLN	DTVPLN -NPLN0875

Results for: 13N NC ASHEVILLE DTVPLN NPLN0845 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	2428833	46766.0
not affected by terrain losses	1860309	35050.3
lost to NTSC IX	74617	1906.2
lost to additional IX by ATV	0	0.0
lost to all IX	74617	1906.2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	WLOS	ASHEVILLE NC	BLCT -2599

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WYMT-TV	HAZARD KY	200.2	LIC	BLCDT -20040109ACY
12	WYMT-DT	HAZARD KY	200.2	PLN	DTVPLN -DTVP0101
13	WMAZ-TV	MACON GA	306.1	LIC	BLCT -2397
13	WVAN-DR	SAVANNAH GA	379.3	LIC	BPRM -20010327AJC
13	WKYT-TV	LEXINGTON KY	325.4	LIC	BPRM -20000419AAF
13	WKYT-TV	LEXINGTON KY	325.4	LIC	BLCDT -20021025AAO
13	WBTW	FLORENCE SC	334.4	LIC	BMLCT -20010420ABM
13	WRCB-TV	CHATTANOOGA TN	233.8	LIC	BLCDT -20041027ADA
13	WRCBTV	CHATTANOOGA TN	233.9	LIC	BPRM -20000328AAG
13	WSET-TV	LYNCHBURG VA	349.5	LIC	BLCT -19820202KE
13	WSET-TV	LYNCHBURG VA	349.5	APP	BSTA -20090224ABG
13	WOWK-TV	HUNTINGTON WV	345.8	CP	BMPCDT -20080620AJA
13	WOWK-TV	HUNTINGTON WV	345.8	LIC	BLCT -20021220ADY
13	WBKO-DT	BOWLING GREEN KY	376.6	APP	USERRECORD-01

Total scenarios = 4

Result key: 17
Scenario 2 Affected station 10
Before Analysis

Results for: 13N NC ASHEVILLE BLCT 2599 LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	2428833	46766.0

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 13 of 20)

not affected by terrain losses	1860309	35050.3
lost to NTSC IX	74792	1829.4
lost to additional IX by ATV	29611	860.2
lost to all IX	104403	2689.6

Potential Interfering Stations Included in above Scenario 2

13N GA MACON	BLCT	2397	LIC
13N SC FLORENCE	BMLCT	20010420ABM	LIC
13N VA LYNCHBURG	BLCT	19820202KE	LIC
13N WV HUNTINGTON	BLCT	20021220ADY	LIC
13A KY LEXINGTON	BPRM	20000419AAF	LIC
13A TN CHATTANOOGA	BPRM	20000328AAG	LIC
13A WV HUNTINGTON	BMPCDT	20080620AJA	CP

After Analysis

Results for: 13N NC ASHEVILLE	BLCT	2599	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	2428833	46766.0	
not affected by terrain losses	1860309	35050.3	
lost to NTSC IX	74792	1829.4	
lost to additional IX by ATV	29710	868.3	
lost to all IX	104502	2697.7	

Potential Interfering Stations Included in above Scenario 2

13N GA MACON	BLCT	2397	LIC
13N SC FLORENCE	BMLCT	20010420ABM	LIC
13N VA LYNCHBURG	BLCT	19820202KE	LIC
13N WV HUNTINGTON	BLCT	20021220ADY	LIC
13A KY LEXINGTON	BPRM	20000419AAF	LIC
13A TN CHATTANOOGA	BPRM	20000328AAG	LIC
13A WV HUNTINGTON	BMPCDT	20080620AJA	CP
13A KY BOWLING GREEN	USERRECORD01	APP	

Percent new IX = 0.0041%

Worst case new IX 0.0041% Scenario 2

#####

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WRCB-TV	CHATTANOOGA TN	BLCDT	-20041027ADA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WGTV-TV	ATHENS GA	184.9	LIC	BPRM	-20010226ABP
12	WGTV	ATHENS GA	184.9	CP MOD	BMPEDT	-20070829AAM
13	WVTM-TV	BIRMINGHAM AL	230.2	LIC	BLCT	-19801209KE
13	WVTM-TV	BIRMINGHAM AL	230.2	CP MOD	BMPCDT	-20080410AAY
13	NEW	MONTGOMERY AL	326.0	APP	BNPET	-20020430AAC
13	WMAZ-TV	MACON GA	312.8	LIC	BLCT	-2397
13	WBKO	BOWLING GREEN KY	234.3	PLN	DTVPLN	-NPLN0833
13	WKYT-TV	LEXINGTON KY	330.1	LIC	BPRM	-20000419AAF
13	WKYT-TV	LEXINGTON KY	330.1	LIC	BLCDT	-20021025AAO

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 14 of 20)

13	WLOS	ASHEVILLE NC	233.8	LIC	BLCT	-2599
13	WHBQ-TV	MEMPHIS TN	411.6	LIC	BMLCT	-20041029AII
13	WHBQ-TV	MEMPHIS TN	411.7	CP MOD	BMPCDT	-20080618AEE
13	WBKO-DT	BOWLING GREEN KY	234.2	APP	USERRECORD-01	

Total scenarios = 6

Result key: 20

Scenario 1 Affected station 11

Before Analysis

Results for: 13A TN CHATTANOOGA	BLCDT	20041027ADA	LIC
HAAT 335.0 m, ATV ERP 34.8 kW			

	POPULATION	AREA (sq km)
within Noise Limited Contour	1079429	28500.6
not affected by terrain losses	950499	23580.9
lost to NTSC IX	49185	1746.7
lost to additional IX by ATV	105	8.0
lost to ATV IX only	22544	717.1
lost to all IX	49290	1754.7

Potential Interfering Stations Included in above Scenario 1

13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N GA MACON	BLCT	2397	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A AL BIRMINGHAM	BMPCDT	20080410AAY	CP
13A KY LEXINGTON	BPRM	20000419AAF	LIC
13N KY BOWLING GREEN	DTVPLN	NPLN0833	PLN

After Analysis

Results for: 13A TN CHATTANOOGA	BLCDT	20041027ADA	LIC
HAAT 335.0 m, ATV ERP 34.8 kW			

	POPULATION	AREA (sq km)
within Noise Limited Contour	1079429	28500.6
not affected by terrain losses	950499	23580.9
lost to NTSC IX	45478	1518.4
lost to additional IX by ATV	2999	204.3
lost to ATV IX only	28041	1073.7
lost to all IX	48477	1722.7

Potential Interfering Stations Included in above Scenario 1

13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N GA MACON	BLCT	2397	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A AL BIRMINGHAM	BMPCDT	20080410AAY	CP
13A KY LEXINGTON	BPRM	20000419AAF	LIC
13A KY BOWLING GREEN	USERRECORD01	APP	

Percent new IX = -0.0902%

Worst case new IX -0.0902% Scenario 1

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Analysis of Interference to Affected Station 12

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 15 of 20)

Analysis of current record
Channel Call City/State Application Ref. No.
13 WRCBTV CHATTANOOGA TN BPRM -20000328AAG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WGTV-TV	ATHENS GA	185.0	LIC	BPRM	-20010226ABP
12	WGTV	ATHENS GA	185.0	CP MOD	BMPEDT	-20070829AAM
13	WVTM-TV	BIRMINGHAM AL	230.2	LIC	BLCT	-19801209KE
13	WVTM-TV	BIRMINGHAM AL	230.2	CP MOD	BMPCDT	-20080410AAY
13	NEW	MONTGOMERY AL	326.0	APP	BNPET	-20020430AAC
13	WMAZ-TV	MACON GA	312.8	LIC	BLCT	-2397
13	WBKO	BOWLING GREEN KY	234.3	PLN	DTVPLN	-NPLN0833
13	WKYTTV	LEXINGTON KY	330.1	LIC	BPRM	-20000419AAF
13	WKYT-TV	LEXINGTON KY	330.1	LIC	BLCDT	-20021025AAO
13	WLOS	ASHEVILLE NC	233.9	LIC	BLCT	-2599
13	WHBQ-TV	MEMPHIS TN	411.6	LIC	BMLCT	-20041029AII
13	WHBQ-TV	MEMPHIS TN	411.6	CP MOD	BMPCDT	-20080618AEE
13	WBKO-DT	BOWLING GREEN KY	234.2	APP	USERRECORD-01	

Total scenarios = 6

Result key: 26
Scenario 1 Affected station 12
Before Analysis

Results for: 13A TN CHATTANOOGA BPRM 20000328AAG LIC
HAAT 325.0 m, ATV ERP 37.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1108790	29391.4
not affected by terrain losses	967670	24323.2
lost to NTSC IX	52660	1814.9
lost to additional IX by ATV	193	16.0
lost to ATV IX only	28662	809.3
lost to all IX	52853	1831.0

Potential Interfering Stations Included in above Scenario 1

13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N GA MACON	BLCT	2397	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A AL BIRMINGHAM	BMPCDT	20080410AAY	CP
13A KY LEXINGTON	BPRM	20000419AAF	LIC
13N KY BOWLING GREEN	DTVPLN	NPLN0833	PLN

After Analysis

Results for: 13A TN CHATTANOOGA BPRM 20000328AAG LIC
HAAT 325.0 m, ATV ERP 37.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1108790	29391.4
not affected by terrain losses	967670	24323.2
lost to NTSC IX	47316	1522.5
lost to additional IX by ATV	5358	272.4
lost to ATV IX only	37139	1234.0
lost to all IX	52674	1794.9

Potential Interfering Stations Included in above Scenario 1

13N AL BIRMINGHAM	BLCT	19801209KE	LIC
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Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 16 of 20)

13N GA MACON	BLCT	2397	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A AL BIRMINGHAM	BMPCDT	20080410AAY	CP
13A KY LEXINGTON	BPRM	20000419AAF	LIC
13A KY BOWLING GREEN	USERRECORD01		APP

Percent new IX = -0.0196%

Worst case new IX -0.0196% Scenario 1

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Analysis of Interference to Affected Station 13

Analysis of current record
Channel Call City/State Application Ref. No.
13 WLLP-CA LAWRENCEBURG TN BLTVA -20050314AHH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	WVTM-TV	BIRMINGHAM AL	190.3	LIC	BLCT	-19801209KE
13	WVTM-TV	BIRMINGHAM AL	190.3	CP MOD	BMPCDT	-20080410AAY
13	NEW	MONTGOMERY AL	324.3	APP	BNPET	-20020430AAC
13	WRCB-TV	CHATTANOOGA TN	187.3	LIC	BLCDT	-20041027ADA
13	WRCBTV	CHATTANOOGA TN	187.3	LIC	BPRM	-20000328AAG
13	WHBQ-TV	MEMPHIS TN	224.5	LIC	BMLCT	-20041029AII
13	WHBQ-TV	MEMPHIS TN	224.5	CP MOD	BMPCDT	-20080618AEE
13	WBKO-DT	BOWLING GREEN KY	230.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 14

NTSC Baseline Analysis
Channel Call City/State Application Ref. No.
13 WHBQTV MEMPHIS TN DTVPLN -NPLN0864

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WMAETV	BOONEVILLE MS	114.5	PLN	DTVPLN	-NPLN0775
13	WVTMTV	BIRMINGHAM AL	336.6	PLN	DTVPLN	-NPLN0812
13	KAFT	FAYETTEVILLE AR	385.2	PLN	DTVPLN	-NPLN0813
13	WCEE	MOUNT VERNON IL	383.4	PLN	DTVPLN	-NPLN0828
13	WBKO	BOWLING GREEN KY	371.2	PLN	DTVPLN	-NPLN0833
13	KLTMTV	MONROE LA	389.8	PLN	DTVPLN	-NPLN0834

Results for: 13N TN MEMPHIS DTVPLN NPLN0864 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	1351438	28960.3
not affected by terrain losses	1324170	27275.8
lost to NTSC IX	20233	1556.4
lost to additional IX by ATV	0	0.0
lost to all IX	20233	1556.4

Analysis of current record

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 17 of 20)

Channel	Call	City/State	Application Ref. No.
13	WHBQ-TV	MEMPHIS TN	BMLCT -20041029AII

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
13	WVTM-TV	BIRMINGHAM AL	336.6	LIC	BLCT -19801209KE
13	WVTM-TV	BIRMINGHAM AL	336.6	CP MOD	BMPCDT -20080410AAY
13	KETG-TV	ARKADELPHIA AR	330.7	LIC	BPRM -20000803AAA
13	KETG	ARKADELPHIA AR	330.7	LIC	BLEDT -20040608AAX
13	KAFT	FAYETTEVILLE AR	385.1	LIC	BLET -20060627AAE
13	KEMV	MOUNTAIN VIEW AR	232.4	LIC	BLEDT -20060623ABO
13	KEMV-TV	MOUNTAIN VIEW AR	232.4	LIC	BPRM -20000801AAD
13	WPXS	MT. VERNON IL	383.4	LIC	BMLCT -19990119KG
13	KLTM-TV	MONROE LA	389.7	LIC	BLET -19981113KE
13	WRCB-TV	CHATTANOOGA TN	411.6	LIC	BLCDT -20041027ADA
13	WRCBTV	CHATTANOOGA TN	411.6	LIC	BPRM -20000328AAG
13	WBKO-DT	BOWLING GREEN KY	371.2	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 15

Channel	Call	City/State	Application Ref. No.
13	WHBQ-TV	MEMPHIS TN	BMPCDT -20080618AEE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
13	WVTM-TV	BIRMINGHAM AL	336.6	LIC	BLCT -19801209KE
13	WVTM-TV	BIRMINGHAM AL	336.6	CP MOD	BMPCDT -20080410AAY
13	KETG-TV	ARKADELPHIA AR	330.6	LIC	BPRM -20000803AAA
13	KETG	ARKADELPHIA AR	330.6	LIC	BLEDT -20040608AAX
13	KAFT	FAYETTEVILLE AR	385.1	LIC	BLET -20060627AAE
13	KEMV	MOUNTAIN VIEW AR	232.3	LIC	BLEDT -20060623ABO
13	KEMV-TV	MOUNTAIN VIEW AR	232.3	LIC	BPRM -20000801AAD
13	WPXS	MT. VERNON IL	383.4	LIC	BMLCT -19990119KG
13	WBKO	BOWLING GREEN KY	371.2	PLN	DTVPLN -NPLN0833
13	KLTM-TV	MONROE LA	389.7	LIC	BLET -19981113KE
13	WRCB-TV	CHATTANOOGA TN	411.7	LIC	BLCDT -20041027ADA
13	WRCBTV	CHATTANOOGA TN	411.6	LIC	BPRM -20000328AAG
13	WBKO-DT	BOWLING GREEN KY	371.2	APP	USERRECORD-01

Total scenarios = 4

Result key: 33
Scenario 2 Affected station 15
Before Analysis

Results for: 13A TN MEMPHIS	BMPCDT	20080618AEE	CP
HAAT 308.0 m, ATV ERP 95.0 kW	POPULATION	AREA (sq km)	
within Noise Limited Contour	1471186	33949.9	
not affected by terrain losses	1451439	33045.6	
lost to NTSC IX	17691	892.3	
lost to additional IX by ATV	10928	756.2	
lost to ATV IX only	20257	1164.3	
lost to all IX	28619	1648.5	

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 18 of 20)

Potential Interfering Stations Included in above Scenario 2

13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N AR FAYETTEVILLE	BLET	20060627AAE	LIC
13N IL MT. VERNON	BMLCT	19990119KG	LIC
13N LA MONROE	BLET	19981113KE	LIC
13A AL BIRMINGHAM	BMPCDT	20080410AAY	CP
13A AR ARKADELPHIA	BPRM	20000803AAA	LIC
13A AR MOUNTAIN VIEW	BPRM	20000801AAD	LIC
13N KY BOWLING GREEN	DTVPLN	NPLN0833	PLN

After Analysis

Results for: 13A TN MEMPHIS	BMPCDT	20080618AEE	CP
HAAT 308.0 m, ATV ERP 95.0 kW	POPULATION	AREA (sq km)	
within Noise Limited Contour	1471186	33949.9	
not affected by terrain losses	1451439	33045.6	
lost to NTSC IX	17034	840.2	
lost to additional IX by ATV	10947	764.2	
lost to ATV IX only	20263	1168.3	
lost to all IX	27981	1604.5	

Potential Interfering Stations Included in above Scenario 2

13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N AR FAYETTEVILLE	BLET	20060627AAE	LIC
13N IL MT. VERNON	BMLCT	19990119KG	LIC
13N LA MONROE	BLET	19981113KE	LIC
13A AL BIRMINGHAM	BMPCDT	20080410AAY	CP
13A AR ARKADELPHIA	BPRM	20000803AAA	LIC
13A AR MOUNTAIN VIEW	BPRM	20000801AAD	LIC
13A KY BOWLING GREEN	USERRECORD01		APP

Percent new IX = -0.0448%

Worst case new IX -0.0448% Scenario 2

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Analysis of Interference to Affected Station 16

Channel	Call	City/State	Application Ref. No.
13	WOWK-TV	HUNTINGTON WV	BMPCDT -20080620AJA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WYMT-TV	HAZARD KY	168.9	LIC	BLCDT -20040109ACY
12	WYMT-DT	HAZARD KY	168.9	PLN	DTVPLN -DTV0101
12	WKRC-TV	CINCINNATI OH	209.9	LIC	BMLCT -19860814KF
12	WBOY-TV	CLARKSBURG WV	184.2	CP	BPCDT -20080620AMD
13	WTHR	INDIANAPOLIS IN	376.9	LIC	BLCT -19840626KE
13	WBKO	BOWLING GREEN KY	404.3	PLN	DTVPLN -NPLN0833
13	WKYTTV	LEXINGTON KY	198.3	LIC	BPRM -20000419AAF
13	WKYT-TV	LEXINGTON KY	198.3	LIC	BLCDT -20021025AAO
13	WLOS	ASHEVILLE NC	345.8	LIC	BLET -2599
13	WSYX	COLUMBUS OH	173.8	LIC	BLCDT -20030801AXM

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 19 of 20)

13	WSYX-DT	COLUMBUS OH	173.9	PLN	DTVPLN	-DTVP0116
13	WTVG	TOLEDO OH	367.8	LIC	BLCT	-20020808ACN
13	WQED	PITTSBURGH PA	289.1	LIC	BMLET	-19830519KK
13	WSET-TV	LYNCHBURG VA	261.6	LIC	BLCT	-19820202KE
13	WSET-TV	LYNCHBURG VA	261.6	APP	BSTA	-20090224ABG
13	WBKO-DT	BOWLING GREEN KY	404.3	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 17

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
13	WOWKTV	HUNTINGTON WV	DTVPLN -NPLN0875

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WYMT-DT	HAZARD KY	168.9	PLN	DTVPLN -DTVP0101
12	WKRCTV	CINCINNATI OH	209.8	PLN	DTVPLN -NPLN0787
12	WBOYTV	CLARKSBURG WV	184.2	PLN	DTVPLN -NPLN0807
13	WTHR	INDIANAPOLIS IN	376.8	PLN	DTVPLN -NPLN0830
13	WBKO	BOWLING GREEN KY	404.3	PLN	DTVPLN -NPLN0833
13	WLOS	ASHEVILLE NC	345.8	PLN	DTVPLN -NPLN0845
13	WSYX-DT	COLUMBUS OH	173.8	PLN	DTVPLN -DTVP0116
13	WTVG	TOLEDO OH	367.7	PLN	DTVPLN -NPLN0855
13	WQED	PITTSBURGH PA	289.1	PLN	DTVPLN -NPLN0859
13	WSETTV	LYNCHBURG VA	261.7	PLN	DTVPLN -NPLN0872

Results for: 13N WV HUNTINGTON DTVPLN NPLN0875 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	1048742	28286.7
not affected by terrain losses	967987	26117.6
lost to NTSC IX	20441	953.8
lost to additional IX by ATV	47134	1782.8
lost to all IX	67575	2736.5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	WOWK-TV	HUNTINGTON WV	BLCT -20021220ADY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WYMT-TV	HAZARD KY	168.9	LIC	BLCDT -20040109ACY
12	WYMT-DT	HAZARD KY	168.9	PLN	DTVPLN -DTVP0101
12	WKRCTV	CINCINNATI OH	209.9	LIC	BMLCT -19860814KF
12	WBOY-TV	CLARKSBURG WV	184.2	CP	BPCDT -20080620AMD
13	WTHR	INDIANAPOLIS IN	376.9	LIC	BLCT -19840626KE
13	WKYTTV	LEXINGTON KY	198.3	LIC	BPRM -20000419AAF
13	WKYT-TV	LEXINGTON KY	198.3	LIC	BLCDT -20021025AAO
13	WLOS	ASHEVILLE NC	345.8	LIC	BLCT -2599
13	WSYX	COLUMBUS OH	173.8	LIC	BLCDT -20030801AXM
13	WSYX-DT	COLUMBUS OH	173.9	PLN	DTVPLN -DTVP0116
13	WTVG	TOLEDO OH	367.8	LIC	BLCT -20020808ACN
13	WQED	PITTSBURGH PA	289.1	LIC	BMLET -19830519KK
13	WSET-TV	LYNCHBURG VA	261.6	LIC	BLCT -19820202KE
13	WSET-TV	LYNCHBURG VA	261.6	APP	BSTA -20090224ABG
13	WBKO-DT	BOWLING GREEN KY	404.3	APP	USERRECORD-01

Table 1 WBKO-DT Pre-Transition OET Bulletin 69 Interference Study
(worst-case scenarios shown page 20 of 20)

Proposal causes no interference

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Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	WBKO-DT	BOWLING GREEN KY	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WNIN-DR	EVANSVILLE IN	134.4	LIC	BPRM -20000328AAW
12	WNIN	EVANSVILLE IN	126.0	LIC	BMLEDT -20041112ABH
13	WVTM-TV	BIRMINGHAM AL	398.5	LIC	BLCT -19801209KE
13	WVTM-TV	BIRMINGHAM AL	398.5	CP MOD	BMPCDT -20080410AAV
13	WPXS	MT. VERNON IL	273.6	LIC	BMLCT -19990119KG
13	WTHR	INDIANAPOLIS IN	319.2	LIC	BLCT -19840626KE
13	WKYTTV	LEXINGTON KY	209.4	LIC	BPRM -20000419AAF
13	WKYT-TV	LEXINGTON KY	209.4	LIC	BLCDT -20021025AAO
13	WLOS	ASHEVILLE NC	376.6	LIC	BLCT -2599
13	WRCB-TV	CHATTANOOGA TN	234.2	LIC	BLCDT -20041027ADA
13	WRCB-TV	CHATTANOOGA TN	234.2	LIC	BPRM -20000328AAG
13	WHEQ-TV	MEMPHIS TN	371.2	LIC	BMLCT -20041029AII
13	WHEQ-TV	MEMPHIS TN	371.2	CP MOD	BMPCDT -20080618AEE
13	WOWK-TV	HUNTINGTON WV	404.3	CP	BMPCDT -20080620AJA
13	WOWK-TV	HUNTINGTON WV	404.3	LIC	BLCT -20021220ADY

Total scenarios = 8

Result key: 36

Scenario 1 Affected station 18

Before Analysis

Results for: 13A KY BOWLING GREEN USERRECORD01 APP

HAAT 220.0 m, ATV ERP 22.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	710914	27711.4
not affected by terrain losses	630666	25540.6
lost to NTSC IX	26259	1177.5
lost to additional IX by ATV	28300	272.3
lost to ATV IX only	40360	612.8
lost to all IX	54559	1449.9

Potential Interfering Stations Included in above Scenario 1

13N IL MT. VERNON	BMLCT	19990119KG	LIC
13N IN INDIANAPOLIS	BLCT	19840626KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13N TN MEMPHIS	BMLCT	20041029AII	LIC
12A IN EVANSVILLE	BPRM	20000328AAW	LIC
13A KY LEXINGTON	BPRM	20000419AAF	LIC
13A TN CHATTANOOGA	BLCDT	20041027ADA	LIC
13A TN MEMPHIS	BMPCDT	20080618AEE	CP