

OET-69 Interference Analysis (WLCU-CD, Campbellsville, KY, Channel 23)(Summary Results)

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/cdbs/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-26-2015

Record Selected for Analysis

WLCU-CD USERRECORD-01 CAMPBELLSVILLE KY US
Channel 23 ERP 3. kW HAAT 52. m RCAMSL 00292 m STRINGENT MASK
Latitude 037-20-39 Longitude 0085-21-34
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

Facility (site # 01) meets maximum height/power limits

Site number	1		
Azimuth	ERP	HAAT	51.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	3.000	33.0	22.511
45.0	3.000	33.0	22.511
90.0	3.000	39.2	24.330
135.0	3.000	43.6	25.529
180.0	3.000	64.7	29.933
225.0	3.000	89.3	33.381
270.0	3.000	73.3	31.202
315.0	3.000	48.6	26.833

Database HAAT does not agree with computed HAAT
Database HAAT: 52 Computed HAAT: 53

Contour Overlap to Proposed Station

Station
WPXK-TV 23 JELLICO TN BLCDT20140702ABN causes

Contour overlap to Digital LPTV station
WLCU-CD 23 CAMPBELLSVILLE KY USERRECORD01

Station
WNAB 23 NASHVILLE TN BLCDT20040712AAO causes

Contour overlap to Digital LPTV station
WLCU-CD 23 CAMPBELLSVILLE KY USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

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

OET-69 Interference Analysis (WLCU-CD, Campbellsville, KY, Channel 23)(Summary Results)

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
23	WLCU-CD	CAMPBELLSVILLE KY	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	WCTE	COOKEVILLE TN	130.1	LIC	BLEDT -20110413ACS
23	WGGD-LD	CLEVELAND GA	379.8	APP	BSTA -20081204AFJ
23	W23BV-D	EVANSVILLE IN	221.6	LIC	BLDTA -20090720ACU
23	WIPB	MUNCIE IN	305.6	LIC	BLEDT -20090717ABL
23	W23DZ-D	TERRE HAUTE IN	274.9	CP	BNPDTL -20100128AHO
23	W23DM-D	FALMOUTH KY	172.8	LIC	BLDTT -20080815ABC
23	W23BQ	ASHEVILLE NC	331.3	CP	BDFCDTT -20120328AGS
23	W23BQ	ASHEVILLE, ETC. NC	331.3	LIC	BLTT -20000222ABJ
23	W23BZ-D	COLUMBUS OH	347.2	LIC	BLDTL -20110318AAC
23	W23DE-D	LIMA OH	379.0	LIC	BLDTL -20090406AHU
23	WPXK-TV	JELLICO TN	195.3	LIC	BLCDT -20140702ABN
23	WNAB	NASHVILLE TN	175.3	LIC	BLCDT -20040712AAO
23	WJDG-LD	GRUNDY VA	352.7	LIC	BLDTL -20120619ABQ
23	WSAZ-TV	HUNTINGTON WV	304.2	LIC	BLANK -0000001039
24	WCVN-TV	COVINGTON KY	201.7	LIC	BLEDT -20020201ABJ
24	WKYI-CD	LOUISVILLE KY	121.1	LIC	BLDTA -20091030AGQ
24	WDTT-LD	KNOXVILLE TN	195.2	LIC	BLDTL -20130311AEF

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Analysis of Interference to Affected Station 1

Channel	Call	City/State	Application Ref. No.
22	WCTE	COOKEVILLE TN	BLEDT -20110413ACS

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Channel	Call	City/State	Application Ref. No.
23	WGGD-LD	CLEVELAND GA	BSTA -20081204AFJ

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Channel	Call	City/State	Application Ref. No.
23	W23BV-D	EVANSVILLE IN	BLDTA -20090720ACU

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Channel	Call	City/State	Application Ref. No.
23	WIPB	MUNCIE IN	BLEDT -20090717ABL

Stations Potentially Affecting This Station

OET-69 Interference Analysis (WLCU-CD, Campbellsville, KY, Channel 23)(Summary Results)

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	W23DZ-D	TERRE HAUTE IN	BNPDTL	-20100128AHO

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	W23DM-D	FALMOUTH KY	BLDTT	-20080815ABC

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	W23BQ	ASHEVILLE NC	BDFCDTT	-20120328AGS

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	W23BQ	ASHEVILLE, ETC. NC	BLTT	-20000222ABJ

Stations Potentially Affecting This Station

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.
23	W23BZ-D	COLUMBUS OH	BLDTL	-20110318AAC

Stations Potentially Affecting This Station

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.
23	W23DE-D	LIMA OH	BLDTL	-20090406AHU

Stations Potentially Affecting This Station

OET-69 Interference Analysis (WLCU-CD, Campbellsville, KY, Channel 23)(Summary Results)

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	WPKX-TV	JELLICO TN	BLCDDT	-20140702ABN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	WCTE	COOKEVILLE TN	127.2	LIC	BLEDT	-20110413ACS
23	WJSP-TV	COLUMBUS GA	357.1	LIC	BLEDT	-20080521AAH
23	WBTB	CHARLOTTE NC	258.7	LIC	BLCDDT	-19991025AEB
23	WNAB	NASHVILLE TN	257.6	LIC	BLCDDT	-20040712AAO
23	WSAZ-TV	HUNTINGTON WV	317.6	LIC	BLANK	-0000001039
24	WUGA-TV	TOCCOA GA	201.6	CP	BPEDT	-20110707AIG
24	WUGA-TV	TOCCOA GA	163.4	LIC	BLEDT	-20130114AAV
24	WKPI-TV	PIKEVILLE KY	190.5	LIC	BLEDT	-20020313ABL
24	WKPI-TV	PIKEVILLE KY	190.5	CP	BPEDT	-20131211ACL
23	WLCU-CD	CAMPBELLSVILLE KY	195.3	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 11
Before Analysis

Results for: 23A TN JELLICO BLCDDT 20140702ABN LIC

HAAT 529.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1718452	44767.1
not affected by terrain losses	1490179	36299.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	34157	1419.9
lost to ATV IX only	34157	1419.9
lost to all IX	34157	1419.9

Potential Interfering Stations Included in above Scenario 1

22A TN COOKEVILLE	BLEDT	20110413ACS	LIC
23A GA COLUMBUS	BLEDT	20080521AAH	LIC
23A NC CHARLOTTE	BLCDDT	19991025AEB	LIC
23A TN NASHVILLE	BLCDDT	20040712AAO	LIC
23A WV HUNTINGTON	BLANK	0000001039	LIC

After Analysis

Results for: 23A TN JELLICO BLCDDT 20140702ABN LIC

HAAT 529.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1718452	44767.1
not affected by terrain losses	1490179	36299.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	34608	1464.3
lost to ATV IX only	34608	1464.3
lost to all IX	34608	1464.3

Potential Interfering Stations Included in above Scenario 1

22A TN COOKEVILLE	BLEDT	20110413ACS	LIC
23A GA COLUMBUS	BLEDT	20080521AAH	LIC
23A NC CHARLOTTE	BLCDDT	19991025AEB	LIC
23A TN NASHVILLE	BLCDDT	20040712AAO	LIC
23A WV HUNTINGTON	BLANK	0000001039	LIC
23A KY CAMPBELLSVILLE	USERRECORD01		APP

Percent new IX = 0.0310%

Worst case new IX 0.0310% Scenario 1

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Analysis of Interference to Affected Station 12

Analysis of current record

OET-69 Interference Analysis (WLCU-CD, Campbellsville, KY, Channel 23)(Summary Results)

Channel Call City/State Application Ref. No.
23 WNAB NASHVILLE TN BLCDT -20040712AAO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	WFIQ	FLORENCE AL	207.7	LIC	BLEDT -20060718ACG
22	WCTE	COOKEVILLE TN	130.5	LIC	BLEDT -20110413ACS
23	WJSP-TV	COLUMBUS GA	424.8	LIC	BLEDT -20080521AAH
23	WPXK-TV	JELLICO TN	257.6	LIC	BLCDDT -20140702ABN
23	WTWV	MEMPHIS TN	296.8	LIC	BLEDT -20090619AAW
24	WHIQ	HUNTSVILLE AL	171.4	LIC	BLEDT -20060927ALU
23	WLCU-CD	CAMPBELLSVILLE KY	175.3	APP	USERRECORD-01

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 12
Before Analysis

Results for: 23A TN NASHVILLE BLCDDT 20040712AAO LIC
HAAT 367.0 m, ATV ERP 350.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1722411	25819.9
not affected by terrain losses	1712541	25322.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	8758	451.1
lost to ATV IX only	8758	451.1
lost to all IX	8758	451.1

Potential Interfering Stations Included in above Scenario 1

22A TN COOKEVILLE	BLEDT	20110413ACS	LIC
23A TN JELLICO	BLCDDT	20140702ABN	LIC
23A TN MEMPHIS	BLEDT	20090619AAW	LIC

After Analysis

Results for: 23A TN NASHVILLE BLCDDT 20040712AAO LIC
HAAT 367.0 m, ATV ERP 350.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1722411	25819.9
not affected by terrain losses	1712541	25322.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	8866	460.0
lost to ATV IX only	8866	460.0
lost to all IX	8866	460.0

Potential Interfering Stations Included in above Scenario 1

22A TN COOKEVILLE	BLEDT	20110413ACS	LIC
23A TN JELLICO	BLCDDT	20140702ABN	LIC
23A TN MEMPHIS	BLEDT	20090619AAW	LIC
23A KY CAMPBELLSVILLE	USERRECORD01		APP

Percent new IX = 0.0063%

Worst case new IX 0.0063% Scenario 1

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel Call City/State Application Ref. No.
23 WJDG-LD GRUNDY VA BLDLTL -20120619ABQ

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel Call City/State Application Ref. No.
23 WSAZ-TV HUNTINGTON WV BLANK -0000001039

OET-69 Interference Analysis (WLCU-CD, Campbellsville, KY, Channel 23)(Summary Results)

Stations Potentially Affecting This Station

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.
24	WCVN-TV	COVINGTON KY	BLEDT	-20020201ABJ

Stations Potentially Affecting This Station

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.
24	WKYI-CD	LOUISVILLE KY	BLDTA	-20091030AGQ

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
24	WDTT-LD	KNOXVILLE TN	BLDTL	-20130311AEF

Stations Potentially Affecting This Station

Proposal causes no interference

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