

Post-Transition Interference Analysis for WTTK-DT, Kokomo, IN, Channel 29

Percent allowed new interference: 0.500  
Percent allowed new interference to Class A: 0.500  
Census data selected 2000

Post Transition Data Base Selected  
/export/home/cdbs/tvdb.sff\_B  
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Record Selected for Analysis

WTTKDT USERRECORD-01 KOKOMO IN US  
Channel 29 ERP 410. kW HAAT 300. m RCAMSL 00553 m  
Latitude 039-53-20 Longitude 0086-12-07  
Status APP Zone 1 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)	41.0 dBu F(50,90) (km)
0.0	410.000	276.9	85.2
45.0	410.000	300.2	88.6
90.0	410.000	309.1	89.8
135.0	410.000	313.0	90.3
180.0	410.000	329.6	92.2
225.0	410.000	307.2	89.6
270.0	410.000	284.8	86.4
315.0	410.000	276.1	85.0

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

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 within the Canadian coordination distance  
Distance to border = 342.3km

Post-Transition Interference Analysis for WTTK-DT, Kokomo, IN, Channel 29

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

	Proposed Station		
Channel	Call	City/State	ARN
29	WTTKDT	KOKOMO IN	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	WSJV	ELKHART IN	192.0	LIC	BDTV	-0567
28	WPTO	OXFORD OH	165.5	LIC	BDTV	-1217
29	WMAQ-TV	CHICAGO IL	251.9	LIC	BDTV	-0525
29	WXIX-TV	NEWPORT KY	165.5	LIC	BDTV	-0661
29	WGTE-TV	TOLEDO OH	304.9	LIC	BDTV	-1227
30	WRGT-TV	DAYTON OH	167.2	LIC	BDTV	-1208

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
28	WSJV	ELKHART IN	BDTV	-0567

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	WCIU-TV	CHICAGO IL	123.1	LIC	BDTV	-0524
27	WBGU-TV	BOWLING GREEN OH	198.1	LIC	BDTV	-1187
28	WYZZ-TV	BLOOMINGTON IL	272.2	LIC	BDTV	-0515
28	WTVW	EVANSVILLE IN	411.5	LIC	BDTV	-0570
28	WFUM	FLINT MI	266.2	LIC	BDTV	-0786
28	WUAB	LORAIN OH	373.3	LIC	BDTV	-1214
28	WPTO	OXFORD OH	310.3	LIC	BDTV	-1217
28	WTMJ-TV	MILWAUKEE WI	215.8	LIC	BDTV	-1762
29	WMAQ-TV	CHICAGO IL	123.1	LIC	BDTV	-0525
29	WTTKDT	KOKOMO IN	192.0	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.
28	WPTO	OXFORD OH	BDTV	-1217

Stations Potentially Affecting This Station

Post-Transition Interference Analysis for WTTK-DT, Kokomo, IN, Channel 29

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	WIPX	BLOOMINGTON IN	140.9	LIC	BDTV	-0564
27	WOUB-TV	ATHENS OH	207.6	LIC	BDTV	-1186
28	WSJV	ELKHART IN	310.3	LIC	BDTV	-0567
28	WTVW	EVANSVILLE IN	273.3	LIC	BDTV	-0570
28	WUAB	LORAIN OH	347.1	LIC	BDTV	-1214
29	WXIX-TV	NEWPORT KY	0.0	LIC	BDTV	-0661
29	WTTKDT	KOKOMO IN	165.5	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	WMAQ-TV	CHICAGO IL	BDTV	-0525

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	WYZZ-TV	BLOOMINGTON IL	188.2	LIC	BDTV	-0515
28	WSJV	ELKHART IN	123.1	LIC	BDTV	-0567
28	WTMJ-TV	MILWAUKEE WI	136.5	LIC	BDTV	-1762
29	WXIX-TV	NEWPORT KY	402.5	LIC	BDTV	-0661
29	WGTU	TRAVERSE CITY MI	380.5	LIC	BDTV	-0813
29	WGTE-TV	TOLEDO OH	349.4	LIC	BDTV	-1227
30	WMBD-TV	PEORIA IL	210.7	LIC	BDTV	-0547
29	WTTKDT	KOKOMO IN	251.9	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1  
 Scenario 1 Affected station 3  
 Before Analysis

Results for: 29A IL CHICAGO BDTV 0525 LIC

HAAT 508.0 m, ATV ERP 350.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	9540682	32513.9
not affected by terrain losses	9539142	32481.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18625	401.3
lost to ATV IX only	18625	401.3
lost to all IX	18625	401.3

Potential Interfering Stations Included in above Scenario 1

28A IN ELKHART	BDTV	0567	LIC
28A WI MILWAUKEE	BDTV	1762	LIC
29A IN KOKOMO	BDTV	0588	LIC

After Analysis

Results for: 29A IL CHICAGO BDTV 0525 LIC

HAAT 508.0 m, ATV ERP 350.0 kW

	POPULATION	AREA (sq km)
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Post-Transition Interference Analysis for WTTK-DT, Kokomo, IN, Channel 29

within Noise Limited Contour	9540682	32513.9
not affected by terrain losses	9539142	32481.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18625	401.3
lost to ATV IX only	18625	401.3
lost to all IX	18625	401.3

Potential Interfering Stations Included in above Scenario 1

28A IN ELKHART	BDTV	0567	LIC
28A WI MILWAUKEE	BDTV	1762	LIC
29A IN KOKOMO	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 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	WXIX-TV	NEWPORT KY	BDTV	-0661

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	WPTO	OXFORD OH	0.0	LIC	BDTV	-1217
29	WMAQ-TV	CHICAGO IL	402.5	LIC	BDTV	-0525
29	WGTE-TV	TOLEDO OH	297.2	LIC	BDTV	-1227
30	WRGT-TV	DAYTON OH	71.5	LIC	BDTV	-1208
29	WTTKDT	KOKOMO IN	165.5	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2  
 Scenario 1 Affected station 4  
 Before Analysis

Results for: 29A KY NEWPORT BDTV 0661 LIC

HAAT 290.0 m, ATV ERP 227.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2707073	19543.0
not affected by terrain losses	2698926	19389.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	332455	1562.3
lost to ATV IX only	332455	1562.3
lost to all IX	332455	1562.3

Potential Interfering Stations Included in above Scenario 1

29A OH TOLEDO	BDTV	1227	LIC
30A OH DAYTON	BDTV	1208	LIC
29A IN KOKOMO	BDTV	0588	LIC

After Analysis

Post-Transition Interference Analysis for WTTK-DT, Kokomo, IN, Channel 29

Results for: 29A KY NEWPORT                      BDTV                      0661                      LIC  
 HAAT 290.0 m, ATV ERP 227.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2707073	19543.0
not affected by terrain losses	2698926	19389.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	337780	1897.4
lost to ATV IX only	337780	1897.4
lost to all IX	337780	1897.4

Potential Interfering Stations Included in above Scenario                      1

29A OH TOLEDO	BDTV	1227	LIC
30A OH DAYTON	BDTV	1208	LIC
29A IN KOKOMO	USERRECORD01		APP

Percent new IX =                      0.2250%

Worst case new IX                      0.2250% Scenario                      1

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Analysis of Interference to Affected Station                      5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	WGTE-TV	TOLEDO OH	BDTV	-1227

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	WFUM	FLINT MI	138.0	LIC	BDTV	-0786
28	WUAB	LORAIN OH	145.8	LIC	BDTV	-1214
29	WMAQ-TV	CHICAGO IL	349.4	LIC	BDTV	-0525
29	WXIX-TV	NEWPORT KY	297.2	LIC	BDTV	-0661
29	WGTU	TRAVERSE CITY MI	368.2	LIC	BDTV	-0813
30	WEYI-TV	SAGINAW MI	175.0	LIC	BDTV	-0808
30	WBNX-TV	AKRON OH	147.7	LIC	BDTV	-1183
30	WRGT-TV	DAYTON OH	225.8	LIC	BDTV	-1208
29	WTTKDT	KOKOMO IN	304.9	APP	USERRECORD-01	

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.
30	WRGT-TV	DAYTON OH	BDTV	-1208

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WXIX-TV	NEWPORT KY	71.5	LIC	BDTV	-0661
29	WGTE-TV	TOLEDO OH	225.8	LIC	BDTV	-1227
30	WKOH	OWENSBORO KY	338.0	LIC	BDTV	-0662
30	WEYI-TV	SAGINAW MI	390.7	LIC	BDTV	-0808

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30	WBNX-TV	AKRON OH	284.1	LIC	BDTV	-1183
30	WVLT-TV	KNOXVILLE TN	415.3	LIC	BDTV	-1463
31	WANE-TV	FORT WAYNE IN	171.2	LIC	BDTV	-0575
29	WTTKDT	KOKOMO IN	167.2	APP	USERRECORD-01	

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.
29	WTTKDT	KOKOMO IN	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	WSJV	ELKHART IN	192.0	LIC	BDTV -0567
28	WPTO	OXFORD OH	165.5	LIC	BDTV -1217
29	WMAQ-TV	CHICAGO IL	251.9	LIC	BDTV -0525
29	WXIX-TV	NEWPORT KY	165.5	LIC	BDTV -0661
29	WGTE-TV	TOLEDO OH	304.9	LIC	BDTV -1227
30	WRGT-TV	DAYTON OH	167.2	LIC	BDTV -1208

Total scenarios = 1

Result key: 3  
 Scenario 1 Affected station 7  
 Before Analysis

Results for: 29A IN KOKOMO USERRECORD01 APP

HAAT 300.0 m, ATV ERP 410.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2475591	25478.9
not affected by terrain losses	2471792	25323.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15868	631.3
lost to ATV IX only	15868	631.3
lost to all IX	15868	631.3

Potential Interfering Stations Included in above Scenario 1

29A IL CHICAGO	BDTV	0525	LIC
29A KY NEWPORT	BDTV	0661	LIC
29A OH TOLEDO	BDTV	1227	LIC

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED