

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-17-2003 Time: 09:27:31

Record Selected for Analysis

WUWT USERRECORD-01 UNION CITY TN US
 Channel 26 ERP 150. kW HAAT 111. m RCAMSL 00203 m
 Latitude 036-26-46 Longitude 0089-02-12
 Status APP Zone 2 Border Offset -
 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

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	74.0 dBu F(50,50) (km)
0.0	150.000	85.6	26.7
45.0	150.000	86.6	26.9
90.0	150.000	92.4	27.6
135.0	150.000	99.6	28.5
180.0	150.000	110.8	29.7
225.0	150.000	89.5	27.2
270.0	150.000	69.7	24.4
315.0	150.000	85.9	26.8

Evaluation from Class A Station

Contour overlap to station

KPLR-DT 26 ST. LOUIS MO DTVPLN DTVP0642

Contour overlap to station

KPLR-TV 26 ST. LOUIS MO BMPCDT 20010928ABD

Contour overlap to station

NEW 26 CLARKSDALE MS BPRM 20000501AJH

Contour Overlap Evaluation from Class A Complete

Contour Overlap Evaluation from LPTV Station to LPTV Stations

Contour overlap to station

WGAP-LP 26 NASHVILLE

TN BLTTL

20001018ABZ

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station 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

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
26	WUWT	UNION CITY TN	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	KPLR-DT	ST. LOUIS MO	257.0	PLN	DTVPLN	-DTVP0642
26	KPLR-TV	ST. LOUIS MO	262.3	CP MOD	BMPCDT	-20010928ABD
26	NEW	CLARKSDALE MS	292.7	APP	BPRM	-20000501AJH
26	WGAP-LP	NASHVILLE TN	204.6	LIC	BLTTL	-20001018ABZ

Analysis of Interference to Affected Station 1

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
26	KPLR-DT	ST. LOUIS MO	DTVPLN	-DTVP0642

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
25	KNLJ	JEFFERSON CITY MO	156.6	PLN	DTVPLN	-NPLN1250
26	KJMH	BURLINGTON IA	264.9	PLN	DTVPLN	-NPLN1274
26	WCCU-DT	URBANA IL	284.9	PLN	DTVPLN	-DTVP0636
26	WLKY-DT	LOUISVILLE KY	389.1	PLN	DTVPLN	-DTVP0639
26	KOZJ	JOPLIN MO	405.6	PLN	DTVPLN	-NPLN1280

27	WTCT	MARION IL	155.4	PLN	DTVPLN	-NPLN1300
27	WQEC	QUINCY IL	183.0	PLN	DTVPLN	-NPLN1301

Results for: 26A MO ST. LOUIS DTVPLN DTVP0642 PLN
 HAAT 308.0 m, ATV ERP 779.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2712512	29040.7
not affected by terrain losses	2710452	28678.6
lost to NTSC IX	336	44.3
lost to additional IX by ATV	53	4.0
lost to ATV IX only	53	4.0
lost to all IX	389	48.3

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
11	KPLRTV	ST. LOUIS MO	DTVPLN	-NPLN0721

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	WGEMTV	QUINCY IL	181.2	PLN	DTVPLN	-NPLN0648
11	WLFI-DT	LAFAYETTE IN	377.8	PLN	DTVPLN	-DTVP0082
11	WHASTV	LOUISVILLE KY	388.0	PLN	DTVPLN	-NPLN0715
11	WLJTTV	LEXINGTON TN	348.3	PLN	DTVPLN	-NPLN0742
12	WILLTV	URBANA IL	218.6	PLN	DTVPLN	-NPLN0765
12	KFVSTV	CAPE GIRARDEAU MO	140.8	PLN	DTVPLN	-NPLN0773
12	KRCG-DT	JEFFERSON CITY MO	157.0	PLN	DTVPLN	-DTVP0102

Results for: 11N MO ST. LOUIS DTVPLN NPLN0721 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	2712574	29048.7
not affected by terrain losses	2687468	27564.1
lost to NTSC IX	20184	1303.6
lost to additional IX by ATV	0	0.0
lost to all IX	20184	1303.6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
26	KPLR-DT	ST. LOUIS MO	DTVPLN	-DTVP0642

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
25	KNLJ	JEFFERSON CITY MO	156.6	LIC	BLCT	-19860430KI
26	KGWB-TV	BURLINGTON IA	292.9	CP	BPCT	-20010515AAJ
26	WCCU	URBANA IL	284.8	CP	BPCDT	-19991101AJP
26	WCCU-DT	URBANA IL	284.9	PLN	DTVPLN	-DTVP0636
26	WLKY-TV	LOUISVILLE KY	389.4	LIC	BLCDT	-20030129AFL
26	WLKY-DT	LOUISVILLE KY	389.1	PLN	DTVPLN	-DTVP0639
26	KOZJ	JOPLIN MO	405.6	LIC	BLET	-19860623KI
27	WTCT	MARION IL	155.4	LIC	BLCT	-19881003KG
27	WQEC	QUINCY IL	182.9	LIC	BMLET	-20010509AAV
27	WQEC	QUINCY IL	183.0	APP	BPET	-19960710LF
26	WUWT	UNION CITY TN	257.0	APP	USERRECORD-01	

Total scenarios = 2

Result key: 1
 Scenario 1 Affected station 1

Before Analysis

Results for: 26A MO ST. LOUIS DTVPLN DTVP0642 PLN
 HAAT 308.0 m, ATV ERP 779.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2712512	29040.7
not affected by terrain losses	2710452	28678.6
lost to NTSC IX	651	92.5
lost to additional IX by ATV	169	28.2
lost to ATV IX only	518	84.5
lost to all IX	820	120.7

Potential Interfering Stations Included in above Scenario 1

26N IA BURLINGTON	BPCT	20010515AAJ	CP
26A IL URBANA	BPCDT	19991101AJP	CP

After Analysis

Results for: 26A MO ST. LOUIS DTVPLN DTVP0642 PLN
 HAAT 308.0 m, ATV ERP 779.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2712512	29040.7
not affected by terrain losses	2710452	28678.6
lost to NTSC IX	4345	144.8
lost to additional IX by ATV	169	28.2
lost to ATV IX only	518	84.5
lost to all IX	4514	173.0

Potential Interfering Stations Included in above Scenario 1

26N IA BURLINGTON	BPCT	20010515AAJ	CP
26A IL URBANA	BPCDT	19991101AJP	CP
26N TN UNION CITY	USERRECORD01		APP

Result key: 2
 Scenario 2 Affected station 1
 Before Analysis

Results for: 26A MO ST. LOUIS DTVPLN DTVP0642 PLN
 HAAT 308.0 m, ATV ERP 779.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2712512	29040.7
not affected by terrain losses	2710452	28678.6
lost to NTSC IX	651	92.5
lost to additional IX by ATV	0	0.0
lost to ATV IX only	53	4.0
lost to all IX	651	92.5

Potential Interfering Stations Included in above Scenario 2

26N IA BURLINGTON	BPCT	20010515AAJ	CP
26A IL URBANA	DTVPLN	DTVP0636	PLN

After Analysis

Results for: 26A MO ST. LOUIS DTVPLN DTVP0642 PLN
 HAAT 308.0 m, ATV ERP 779.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2712512	29040.7

not affected by terrain losses	2710452	28678.6
lost to NTSC IX	4345	144.8
lost to additional IX by ATV	0	0.0
lost to ATV IX only	53	4.0
lost to all IX	4345	144.8

Potential Interfering Stations Included in above Scenario 2

26N IA BURLINGTON	BPCT	20010515AAJ	CP
26A IL URBANA	DTVPLN	DTVP0636	PLN
26N TN UNION CITY	USERRECORD01		APP

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
26	KPLR-TV	ST. LOUIS MO	BMPCDT	-20010928ABD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
25	KNLJ	JEFFERSON CITY MO	153.8	LIC	BLCT	-19860430KI
26	KGWB-TV	BURLINGTON IA	287.8	CP	BPCT	-20010515AAJ
26	WCCU	URBANA IL	283.0	CP	BPCDT	-19991101AJP
26	WCCU-DT	URBANA IL	283.1	PLN	DTVPLN	-DTVP0636
26	WLKY-TV	LOUISVILLE KY	391.8	LIC	BLCDT	-20030129AFL
26	WLKY-DT	LOUISVILLE KY	391.4	PLN	DTVPLN	-DTVP0639
26	KOZJ	JOPLIN MO	405.4	LIC	BLET	-19860623KI
27	WTCT	MARION IL	160.4	LIC	BLCT	-19881003KG
27	WQEC	QUINCY IL	177.6	LIC	BMLET	-20010509AAV
27	WQEC	QUINCY IL	177.7	APP	BPET	-19960710LF
26	WUWT	UNION CITY TN	262.3	APP	USERRECORD-01	

Total scenarios = 1

Result key: 3

Scenario 1 Affected station 2

Before Analysis

Results for: 26A MO ST. LOUIS BMPCDT 20010928ABD CP

HAAT 288.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2719380	29880.3
not affected by terrain losses	2717700	29586.7
lost to NTSC IX	339	96.5
lost to additional IX by ATV	1159	40.2
lost to ATV IX only	1230	68.4
lost to all IX	1498	136.7

Potential Interfering Stations Included in above Scenario 1

26N IA BURLINGTON	BPCT	20010515AAJ	CP
26A IL URBANA	BPCDT	19991101AJP	CP

After Analysis

Results for: 26A MO ST. LOUIS BMPCDT 20010928ABD CP

HAAT 288.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2719380	29880.3
not affected by terrain losses	2717700	29586.7
lost to NTSC IX	3545	136.7
lost to additional IX by ATV	1159	40.2
lost to ATV IX only	1230	68.4
lost to all IX	4704	176.9

Potential Interfering Stations Included in above Scenario 1

26N IA BURLINGTON	BPCT	20010515AAJ	CP
26A IL URBANA	BPCDT	19991101AJP	CP
26N TN UNION CITY	USERRECORD01		APP

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
26	NEW	CLARKSDALE MS	BPRM -20000501AJH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
25	KVTN	PINE BLUFF AR	136.3	LIC	BLCT -19881209KF
25	WMAO-DT	GREENWOOD MS	87.1	PLN	DTVPLN -DTVP0607
25	WMAO-TV	GREENWOOD MS	87.1	CP	BPEDT -20000501AHB
25	WPTY-TV	MEMPHIS TN	146.9	CP	BPCDT -19990914AAC
25	WPTY-DT	MEMPHIS TN	138.7	PLN	DTVPLN -DTVP0619
26	WYLE	FLORENCE AL	265.5	LIC	BLCT -19860515KE
26	WTJP	GADSDEN AL	387.3	APP	BPCT -20020703AAK
26	WTJP-DT	GADSDEN AL	387.3	PLN	DTVPLN -DTVP0628
26	WTJP	GADSDEN AL	387.3	CP	BPCDT -19991101AHS
26	KVTH	HOT SPRINGS AR	223.2	LIC	BLCT -19950420KJ
26	KLPA-TV	ALEXANDRIA LA	339.0	CP	BPEDT -20000421AAK
26	KLPA-DT	ALEXANDRIA LA	339.0	PLN	DTVPLN -DTVP0640
26	WMDN	MERIDIAN MS	271.6	CP	BPCDT -19990820KE
26	WMDN-DT	MERIDIAN MS	272.9	PLN	DTVPLN -DTVP0643
27	KTVE-DT	EL DORADO AR	190.3	PLN	DTVPLN -DTVP0661
27	KLEP-DT	NEWARK AR	189.3	PLN	DTVPLN -DTVP0663
27	WLOV-TV	WEST POINT MS	147.8	LIC	BLCT -19830608KE
26	WUWT	UNION CITY TN	292.7	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.
26	WGAP-LP	NASHVILLE TN	BLTTL -20001018ABZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	WKYU-DT	BOWLING GREEN KY	104.7	PLN	DTVPLN	-DTVP0306
23	WNAB-DT	NASHVILLE TN	27.5	PLN	DTVPLN	-DTVP0543
23	WNAB	NASHVILLE TN	11.2	CP	BPCDT	-19991014ABF
26	WYLE	FLORENCE AL	198.4	LIC	BLCT	-19860515KE
26	WTJP	GADSDEN AL	262.8	APP	BPCT	-20020703AAK
26	WTJP-DT	GADSDEN AL	262.8	PLN	DTVPLN	-DTVP0628
26	WTJP	GADSDEN AL	262.8	CP	BPCDT	-19991101AHS
26	WLKY-TV	LOUISVILLE KY	259.1	LIC	BLCDT	-20030129AFL
26	WLKY-DT	LOUISVILLE KY	259.0	PLN	DTVPLN	-DTVP0639
26	W26CJ	CLARKSVILLE TN	55.7	CP MOD	BMPTTL	-20000530ACP
26	960920LJ	KNOXVILLE TN	256.3	APP	BPCT	-19960920LJ
26	WATE-DT	KNOXVILLE TN	255.4	PLN	DTVPLN	-DTVP0654
26	WATE-TV	KNOXVILLE TN	255.4	CP MOD	BMPCDT	-20011127ABC
26	WUWT-CA	UNION CITY TN	204.6	CP MOD	BMPTVL	-19980601KT
27	WKRN-DT	NASHVILLE TN	13.8	PLN	DTVPLN	-DTVP0690
33	WBKO-DT	BOWLING GREEN KY	104.7	PLN	DTVPLN	-DTVP0902
40	WNKY	BOWLING GREEN KY	111.1	LIC	BLCT	-20011206ABG
26	WUWT	UNION CITY TN	204.6	APP	USERRECORD-01	

Total scenarios = 3

Result key: 4
Scenario 1 Affected station 4
Before Analysis

Results for: 26N TN NASHVILLE	BLTTTL	20001018ABZ	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	534619	1280.5	
not affected by terrain losses	519713	1220.5	
lost to NTSC IX	79	4.0	
lost to additional IX by ATV	37205	72.0	
lost to all IX	37284	76.0	

Potential Interfering Stations Included in above Scenario 1

26N TN CLARKSVILLE	BMPTTL	20000530ACP	CP
27A TN NASHVILLE	DTVPLN	DTVP0690	PLN

After Analysis

Results for: 26N TN NASHVILLE	BLTTTL	20001018ABZ	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	534619	1280.5	
not affected by terrain losses	519713	1220.5	
lost to NTSC IX	2940	16.0	
lost to additional IX by ATV	34344	60.0	
lost to all IX	37284	76.0	

Potential Interfering Stations Included in above Scenario 1

26N TN CLARKSVILLE	BMPTTL	20000530ACP	CP
27A TN NASHVILLE	DTVPLN	DTVP0690	PLN
26N TN UNION CITY	USERRECORD01		APP

Result key: 5
Scenario 2 Affected station 4

Before Analysis

Results for: 26N TN NASHVILLE	BLTTTL	20001018ABZ	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	534619	1280.5	
not affected by terrain losses	519713	1220.5	
lost to NTSC IX	3071	28.0	
lost to additional IX by ATV	34213	48.0	
lost to all IX	37284	76.0	

Potential Interfering Stations Included in above Scenario 2

26N TN CLARKSVILLE	BMPTTL	20000530ACP	CP
26N TN KNOXVILLE	BPCT	19960920LJ	APP
27A TN NASHVILLE	DTVPLN	DTVP0690	PLN

After Analysis

Results for: 26N TN NASHVILLE	BLTTTL	20001018ABZ	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	534619	1280.5	
not affected by terrain losses	519713	1220.5	
lost to NTSC IX	3071	28.0	
lost to additional IX by ATV	34213	48.0	
lost to all IX	37284	76.0	

Potential Interfering Stations Included in above Scenario 2

26N TN CLARKSVILLE	BMPTTL	20000530ACP	CP
26N TN KNOXVILLE	BPCT	19960920LJ	APP
27A TN NASHVILLE	DTVPLN	DTVP0690	PLN
26N TN UNION CITY	USERRECORD01		APP

Result key: 6
Scenario 3 Affected station 4
Before Analysis

Results for: 26N TN NASHVILLE	BLTTTL	20001018ABZ	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	534619	1280.5	
not affected by terrain losses	519713	1220.5	
lost to NTSC IX	79	4.0	
lost to additional IX by ATV	37205	72.0	
lost to all IX	37284	76.0	

Potential Interfering Stations Included in above Scenario 3

26N TN CLARKSVILLE	BMPTTL	20000530ACP	CP
27A TN NASHVILLE	DTVPLN	DTVP0690	PLN

After Analysis

Results for: 26N TN NASHVILLE	BLTTTL	20001018ABZ	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	534619	1280.5	
not affected by terrain losses	519713	1220.5	
lost to NTSC IX	2940	16.0	
lost to additional IX by ATV	34344	60.0	
lost to all IX	37284	76.0	

26N TN CLARKSVILLE	BMPTTL	20000530ACP	CP
27A TN NASHVILLE	DTVPLN	DTVP0690	PLN
26N TN UNION CITY	USERRECORD01		APP

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
26	WUWT	UNION CITY TN	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	KPOB-TV	POPLAR BLUFF MO	132.2	CP	BPCDT -19991019ABN
18	KPOB-DT	POPLAR BLUFF MO	132.2	PLN	DTVPLN -DTVP0312
22	KBSI-DT	CAPE GIRARDEAU MO	116.5	PLN	DTVPLN -DTVP0489
22	KBSI	CAPE GIRARDEAU MO	116.5	CP	BPCDT -19991028AAS
23	KBSI	CAPE GIRARDEAU MO	116.5	LIC	BLCT -19951120KT
26	WYLE	FLORENCE AL	236.7	LIC	BLCT -19860515KE
26	WTJP	GADSDEN AL	375.3	APP	BPCT -20020703AAK
26	WTJP-DT	GADSDEN AL	375.3	PLN	DTVPLN -DTVP0628
26	WTJP	GADSDEN AL	375.3	CP	BPCDT -19991101AHS
26	WLKY-TV	LOUISVILLE KY	354.7	LIC	BLCDDT -20030129AFL
26	WLKY-DT	LOUISVILLE KY	354.4	PLN	DTVPLN -DTVP0639
26	KPLR-DT	ST. LOUIS MO	257.0	PLN	DTVPLN -DTVP0642
26	KPLR-TV	ST. LOUIS MO	262.3	CP MOD	BMPCDT -20010928ABD
26	NEW	CLARKSDALE MS	292.7	APP	BPRM -20000501AJH
26	W67CV	MEMPHIS TN	154.1	CP	BPTTL -20030422AAT
26	WGAP-LP	NASHVILLE TN	204.6	LIC	BLTTTL -20001018ABZ
27	WTCT	MARION IL	123.5	LIC	BLCT -19881003KG
29	WKPD	PADUCAH KY	79.0	LIC	BLET -19950417KH
34	WSIL-TV	HARRISBURG IL	130.6	CP	BPCDT -19991019ABM
34	WSIL-DT	HARRISBURG IL	130.5	PLN	DTVPLN -DTVP0936
41	WKPD	PADUCAH KY	79.0	LIC	BLEDT -20020304ALI
41	WKPD-DT	PADUCAH KY	79.0	PLN	DTVPLN -DTVP1161

Total scenarios = 1

Result key: 7

Scenario 1 Affected station 5

Before Analysis

Results for: 26N TN UNION CITY	USERRECORD01	APP
	POPULATION	AREA (sq km)
within Noise Limited Contour	60174	2612.6
not affected by terrain losses	60174	2612.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to all IX	0	0.0

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