

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
 /space/software/cdb/pt_tvdb.sff
 TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 04-13-2012 Time: 14:13:51

Record Selected for Analysis

WUWT USERRECORD-01 UNION CITY TN US
 Channel 26 ERP 24.6 kW HAAT 111. m RCMSL 00203 m
 Latitude 036-26-46 Longitude 0089-02-12
 Status APP Zone 2 Border Offset -
 Dir Antenna Make CDB Model 0000000020433 Beam tilt N Ref Azimuth 0.
 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 = CA
 Maximum height/power limits not checked

Site number 1			
Azimuth	ERP	HAAT	74.0 dBu F(50,50)
(Deg)	(kW)	(m)	(km)
0.0	24.600	85.6	17.0
45.0	19.486	86.6	15.9
90.0	10.716	92.4	14.0
135.0	9.154	99.6	14.0
180.0	11.043	110.8	15.7
225.0	9.154	89.5	13.2
270.0	10.716	69.7	12.2
315.0	19.486	85.9	15.9

Evaluation from Class A Station

Contour overlap to station
 KPLR-TV 26 ST. LOUIS MO BLCDT 20030812ABY

Contour overlap to station
 KPLR-TV 26 ST. LOUIS MO BPCDT 20080620AFX

Contour Overlap Evaluation from Class A Complete

Contour Overlap Evaluation from LPTV Station to LPTV Stations

Station inside contour of station
 WUWT-CD 26 UNION CITY TN BLDTA 20090514AAD

Station inside contour of station
 WUWT-CD 26 UNION CITY VI BDISTTA 20071016ABB

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Station
WUWT-CD 26 UNION CITY VI BDISTTA20071016ABB

Is inside contour of station
WUWT 26 UNION CITY TN USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

NO LANDMOBILE SPACING VIOLATIONS FOUND

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

Start of Interference Analysis

Channel	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-TV	ST. LOUIS MO	262.3	LIC	BLCDDT	-20030812ABY
26	KPLR-TV	ST. LOUIS MO	262.0	CP	BPCDDT	-20080620AFX
26	WUWT-CD	UNION CITY TN	0.0	LIC	BLDDTA	-20090514AAD
26	WUWT-CD	UNION CITY VI	0.0	APP	BDISTTA	-20071016ABB

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
26	KPLR-TV	ST. LOUIS MO	BLCDDT	-20030812ABY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	WCCU	URBANA IL	283.0	LIC	BLCDDT	-20050317ADS
26	WCCU	URBANA IL	283.0	CP	BPCDDT	-20080620AGB
26	WLKY-TV	LOUISVILLE KY	391.8	LIC	BLCDDT	-20030129AFL
26	WUWT	UNION CITY TN	262.3	APP	USERRECORD-01	

Total scenarios = 2

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 26A MO ST. LOUIS BLCDDT 20030812ABY LIC
HAAT 288.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2844443	29884.6
not affected by terrain losses	2843198	29587.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	156	25.4

lost to ATV IX only	156	25.4
lost to all IX	156	25.4

Potential Interfering Stations Included in above Scenario 1

26A IL URBANA BLC DT 20050317ADS LIC

After Analysis

Results for: 26A MO ST. LOUIS BLC DT 20030812ABY LIC

HAAT 288.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2844443	29884.6
not affected by terrain losses	2843198	29587.3
lost to NTSC IX	153	7.8
lost to additional IX by ATV	156	25.4
lost to ATV IX only	156	25.4
lost to all IX	309	33.2

Potential Interfering Stations Included in above Scenario 1

26A IL URBANA BLC DT 20050317ADS LIC
26N TN UNION CITY USERRECORD01 APP

Percent new IX = 0.0054%

Result key: 2
Scenario 2 Affected station 1
Before Analysis

Results for: 26A MO ST. LOUIS BLC DT 20030812ABY LIC

HAAT 288.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2844443	29884.6
not affected by terrain losses	2843198	29587.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	208	50.8
lost to ATV IX only	208	50.8
lost to all IX	208	50.8

Potential Interfering Stations Included in above Scenario 2

26A IL URBANA BPC DT 20080620AGB CP

After Analysis

Results for: 26A MO ST. LOUIS BLC DT 20030812ABY LIC

HAAT 288.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	2844443	29884.6
not affected by terrain losses	2843198	29587.3
lost to NTSC IX	153	7.8
lost to additional IX by ATV	208	50.8
lost to ATV IX only	208	50.8
lost to all IX	361	58.7

Potential Interfering Stations Included in above Scenario 2

26A IL URBANA BPC DT 20080620AGB CP
26N TN UNION CITY USERRECORD01 APP

Percent new IX = 0.0054%

Worst case new IX 0.0054% Scenario 2

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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	BPC DT -20080620AFX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	WCCU	URBANA IL	283.9	LIC	BLCDT	-20050317ADS
26	WCCU	URBANA IL	283.9	CP	BPCDT	-20080620AGB
26	WLKY-TV	LOUISVILLE KY	392.4	LIC	BLCDT	-20030129AFL
26	WUWT	UNION CITY TN	262.0	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3
Scenario 1 Affected station 2
Before Analysis

Results for: 26A MO ST. LOUIS BPCDT 20080620AFX CP
HAAT 339.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2901978	33420.5
not affected by terrain losses	2898075	33017.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	247	30.3
lost to ATV IX only	247	30.3
lost to all IX	247	30.3

Potential Interfering Stations Included in above Scenario 1

26A IL URBANA BLCDT 20050317ADS LIC

After Analysis

Results for: 26A MO ST. LOUIS BPCDT 20080620AFX CP
HAAT 339.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2901978	33420.5
not affected by terrain losses	2898075	33017.6
lost to NTSC IX	119	17.6
lost to additional IX by ATV	247	30.3
lost to ATV IX only	247	30.3
lost to all IX	366	47.9

Potential Interfering Stations Included in above Scenario 1

26A IL URBANA BLCDT 20050317ADS LIC
26N TN UNION CITY USERRECORD01 APP

Percent new IX = 0.0041%

Result key: 4
Scenario 2 Affected station 2
Before Analysis

Results for: 26A MO ST. LOUIS BPCDT 20080620AFX CP
HAAT 339.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2901978	33420.5
not affected by terrain losses	2898075	33017.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	383	60.6
lost to ATV IX only	383	60.6
lost to all IX	383	60.6

Potential Interfering Stations Included in above Scenario 2

26A IL URBANA BPCDT 20080620AGB CP

After Analysis

Results for: 26A MO ST. LOUIS BPCDT 20080620AFX CP
HAAT 339.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2901978	33420.5
not affected by terrain losses	2898075	33017.6
lost to NTSC IX	119	17.6
lost to additional IX by ATV	383	60.6
lost to ATV IX only	383	60.6
lost to all IX	502	78.2

Potential Interfering Stations Included in above Scenario 2

26A IL URBANA BPCDT 20080620AGB CP
26N TN UNION CITY USERRECORD01 APP

Percent new IX = 0.0041%

Worst case new IX 0.0041% Scenario 2

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
26	WUWT-CD	UNION CITY TN	BLDTA	-20090514AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	WTJP-TV	GADSDEN AL	375.3	LIC	BLCDDT	-20110304ACB
26	NEW	PARAGOULD AR	124.8	APP	BNPDTL	-20101019AAO
26	WLKY-TV	LOUISVILLE KY	354.7	LIC	BLCDDT	-20030129AFL
26	NEW	CAPE GIRARDEAU MO	125.0	APP	BNPDTL	-20100907ACA
26	KPLR-TV	ST. LOUIS MO	262.3	LIC	BLCDDT	-20030812ABY
26	KPLR-TV	ST. LOUIS MO	262.0	CP	BPCDDT	-20080620AFX
26	WPGF-LP	MEMPHIS TN	154.4	CP	BPTTL	-20080814ABC
26	WUWT	UNION CITY TN	0.0	APP	USERRECORD-01	

Total scenarios = 2

Result key: 5

Scenario 1 Affected station 3

Before Analysis

Results for: 26A TN UNION CITY BLDTA 20090514AAD LIC

HAAT	1.0 m, ATV ERP	15.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			100771	5621.3
not affected by terrain losses			100771	5621.3
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: 26A TN UNION CITY BLDTA 20090514AAD LIC

HAAT	1.0 m, ATV ERP	15.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			100771	5621.3
not affected by terrain losses			100771	5621.3
lost to NTSC IX			91978	5329.7
lost to additional IX by ATV			0	0.0
lost to ATV IX only			0	0.0
lost to all IX			91978	5329.7

Potential Interfering Stations Included in above Scenario 1

26N TN UNION CITY USERRECORD01 APP

The following station failed the de minimis interference criteria.

26N TN UNION CITY USERRECORD01
ERP 24.60 kW HAAT 111.0 m RCAMSL 203.0 m
Antenna CDB 0000000020433

Due to interference to the following station and scenario: 1

26D TN UNION CITY BLDTA 20090514AAD
ERP 15.00 kW HAAT 1.0 m RCAMSL 201.0 m
Antenna CDB 9999999999999

Percent new interference from proposal: 91.2743 to BLDTA 20090514AAD

Result key: 6
Scenario 2 Affected station 3
Before Analysis

Results for: 26A TN UNION CITY BLDTA 20090514AAD LIC
HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	100771	5621.3
not affected by terrain losses	100771	5621.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6	2.9
lost to ATV IX only	6	2.9
lost to all IX	6	2.9

Potential Interfering Stations Included in above Scenario 2

26A AR PARAGOULD BNPDTL 20101019AAO APP

After Analysis

Results for: 26A TN UNION CITY BLDTA 20090514AAD LIC
HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	100771	5621.3
not affected by terrain losses	100771	5621.3
lost to NTSC IX	91978	5329.7
lost to additional IX by ATV	0	0.0
lost to ATV IX only	6	2.9
lost to all IX	91978	5329.7

Potential Interfering Stations Included in above Scenario 2

26A AR PARAGOULD BNPDTL 20101019AAO APP
26N TN UNION CITY USERRECORD01 APP

The following station failed the de minimis interference criteria.

26N TN UNION CITY USERRECORD01
ERP 24.60 kW HAAT 111.0 m RCAMSL 203.0 m
Antenna CDB 0000000020433

Due to interference to the following station and scenario: 2

26D TN UNION CITY BLDTA 20090514AAD
ERP 15.00 kW HAAT 1.0 m RCAMSL 201.0 m
Antenna CDB 99999999999999

Percent new interference from proposal: 91.2738 to BLDTA 20090514AAD

Worst case new IX 91.2743% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
26	WUWT-CD	UNION CITY VI	BDISTTA -20071016ABB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	KBSI	CAPE GIRARDEAU MO	116.5	LIC	BLCDDT -20110608ABZ
26	WTJP-TV	GADSDEN AL	375.3	LIC	BLCDDT -20110304ACB
26	WLKY-TV	LOUISVILLE KY	354.7	LIC	BLCDDT -20030129AFL
26	KPLR-TV	ST. LOUIS MO	262.3	LIC	BLCDDT -20030812ABY
26	KPLR-TV	ST. LOUIS MO	262.0	CP	BPCDDT -20080620AFX
34	WSIL-TV	HARRISBURG IL	130.6	LIC	BLCDDT -20080718AAR
41	WKPD	PADUCAH KY	79.0	LIC	BLEDT -20020304ALI
26	WUWT	UNION CITY TN	0.0	APP	USERRECORD-01

Total scenarios = 1

Result key: 7
 Scenario 1 Affected station 4
 Before Analysis

Results for: 26N VI UNION CITY BDISTTA 20071016ABB APP
 POPULATION AREA (sq km)
 within Noise Limited Contour 38102 1126.0
 not affected by terrain losses 38102 1126.0
 lost to NTSC IX 0 0.0
 lost to additional IX by ATV 0 0.0
 lost to all IX 0 0.0

Potential Interfering Stations Included in above Scenario 1

After Analysis

Results for: 26N VI UNION CITY BDISTTA 20071016ABB APP
 POPULATION AREA (sq km)
 within Noise Limited Contour 38102 1126.0
 not affected by terrain losses 38102 1126.0
 lost to NTSC IX 37785 1114.2
 lost to additional IX by ATV 0 0.0
 lost to all IX 37785 1114.2

Potential Interfering Stations Included in above Scenario 1

26N TN UNION CITY USERRECORD01 APP

The following station failed the de minimis interference criteria.

26N TN UNION CITY USERRECORD01
 ERP 24.60 kW HAAT 111.0 m RCAMSL 203.0 m
 Antenna CDB 0000000020433

Due to interference to the following station and scenario: 1

26N VI UNION CITY BDISTTA 20071016ABB
 ERP 24.80 kW HAAT 112.0 m RCAMSL 203.0 m
 Antenna CDB 99999999999999

Percent new interference from proposal: 99.1680 to BDISTTA 20071016ABB

Worst case new IX 99.1680% Scenario 1

Proposed station is MX

26N TN UNION CITY USERRECORD01 APP
 26N VI UNION CITY BDISTTA 20071016ABB APP

Proposal MX with BDISTTA 20071016ABB scenario 1 of station 4

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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.
22	KBSI	CAPE GIRARDEAU MO	116.5	LIC	BLCDT -20110608ABZ
26	WTJP-TV	GADSDEN AL	375.3	LIC	BLCDT -20110304ACB
26	WLKY-TV	LOUISVILLE KY	354.7	LIC	BLCDT -20030129AFL
26	KPLR-TV	ST. LOUIS MO	262.3	LIC	BLCDT -20030812ABY
26	KPLR-TV	ST. LOUIS MO	262.0	CP	BPCDT -20080620AFX
26	WUWT-CD	UNION CITY TN	0.0	LIC	BLDTA -20090514AAD
26	WUWT-CD	UNION CITY VI	0.0	APP	BDISTTA -20071016ABB
34	WSIL-TV	HARRISBURG IL	130.6	LIC	BLCDT -20080718AAR
41	WKPD	PADUCAH KY	79.0	LIC	BLEDT -20020304ALI

Total scenarios = 3

Result key: 8
Scenario 1 Affected station 5
Before Analysis

Results for: 26N TN UNION CITY	USERRECORD01	APP
	POPULATION	AREA (sq km)
within Noise Limited Contour	24615	801.8
not affected by terrain losses	24615	801.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	24612	798.9
lost to all IX	24612	798.9

Potential Interfering Stations Included in above Scenario 1

26A TN UNION CITY BLDTA 20090514AAD LIC

Result key: 9
Scenario 2 Affected station 5
Before Analysis

Results for: 26N TN UNION CITY	USERRECORD01	APP
	POPULATION	AREA (sq km)
within Noise Limited Contour	24615	801.8
not affected by terrain losses	24615	801.8
lost to NTSC IX	24612	798.9
lost to additional IX by ATV	0	0.0
lost to all IX	24612	798.9

Potential Interfering Stations Included in above Scenario 2

26N VI UNION CITY BDISSA 20071016ABB APP
26A TN UNION CITY BLDTA 20090514AAD LIC

Result key: 10
Scenario 3 Affected station 5
Before Analysis

Results for: 26N TN UNION CITY	USERRECORD01	APP
	POPULATION	AREA (sq km)
within Noise Limited Contour	24615	801.8
not affected by terrain losses	24615	801.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	24612	798.9
lost to all IX	24612	798.9

Potential Interfering Stations Included in above Scenario 3

26A TN UNION CITY BLDTA 20090514AAD LIC

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