

TV INTERFERENCE and SPACING ANALYSIS PROGRAM SUMMARY
(Full Report Below)

Date: 12-02-2007 Time: 09:52:04
USERRECORD-01 US
Channel 16 ERP 130. kW HAAT 164. m RCAMSL 00294 m
Latitude 038-34-24 Longitude 0090-19-30
Status APP Zone 2 Border Offset Z
Dir Antenna Make CDB Model 00000000016543 Beam tilt N Ref Azimuth 135.
Last update Cutoff date Docket

Comments
Cell Size for Service Analysis 1.0 km/side
Distance Increments for Longley-Rice Analysis 1.00 km

Station Evaluations Are Worst Case Senarios

Ch	Call	City, St	File No.		
16	WUSI-TV	OLNEY IL	BMLET	- 20030515AAM	OK
17	K22HG	ST. CHARLES MO	BDISDTT	- 20060327ACC	Less then 0.5 % OK
16			USERRECORD-01		Less then 0.5 % OK

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 12-02-2007 Time: 09:52:04

Record Selected for Analysis

USERRECORD-01 US
 Channel 16 ERP 130. kW HAAT 164. m RCAMSL 00294 m
 Latitude 038-34-24 Longitude 0090-19-30
 Status APP Zone 2 Border Offset Z
 Dir Antenna Make CDB Model 00000000016543 Beam tilt N Ref Azimuth 135.
 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

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	74.0 dBu F(50, 50) (km)
0.0	37.418	126.2	23.3
45.0	130.000	145.4	31.8
90.0	34.613	164.1	25.7
135.0	7.613	161.6	17.7
180.0	34.613	134.3	23.5
225.0	130.000	131.6	30.7
270.0	37.418	120.0	22.9
315.0	8.520	126.7	15.7

Contour Overlap Evaluation from LPTV Station to Full Service TV & DTV

Contour overlap to station
 WUSI-TV 16 OLNEY IL BMLT 20030515AAM

Contour Overlap Evaluation from LPTV to Full Service TV & DTV Complete

Contour Overlap Evaluation from LPTV Station to LPTV Stations

Station inside contour of station
 KDTL-LP 16 ST. LOUIS MO BPTTL 20041230ADF

Station inside contour of station
 K22HG 17 ST. CHARLES MO BDISDTT 20060327ACC

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Station
 KDTL-LP 16 ST. LOUIS MO BPTTL20041230ADF

Is inside contour of 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
16				USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	WUSI-TV	OLNEY IL	192.7	LIC	BMLET	- 20030515AAM
17	K22HG	ST. CHARLES MO	32.6	CP	BDISDTT	- 20060327ACC

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Analysis of Interference to Affected Station 1

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
16	WUSITV	OLNEY IL	DTVPLN	- NPLN0950

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	WFIETV	EVANSVILLE IN	118.4	PLN	DTVPLN	- NPLN0887
15	WICD	CHAMPAIGN IL	138.1	PLN	DTVPLN	- NPLN0920
15	WSEC-DT	JACKSONVILLE IL	202.3	PLN	DTVPLN	- DTVP0168
15	WKPCTV	LOUISVILLE KY	206.4	PLN	DTVPLN	- NPLN0923
16	WTJR	QUINCY IL	302.2	PLN	DTVPLN	- NPLN0951
16	WTVO-DT	ROCKFORD IL	393.3	PLN	DTVPLN	- DTVP0216
16	WHMB-DT	INDIANAPOLIS IN	202.8	PLN	DTVPLN	- DTVP0217
16	WNDUTV	SOUTH BEND IN	347.9	PLN	DTVPLN	- NPLN0952
16	WKNT-DT	BOWLING GREEN KY	263.7	PLN	DTVPLN	- DTVP0220
16	WPTD	DAYTON OH	347.9	PLN	DTVPLN	- NPLN0960
16	WMTU	JACKSON TN	349.7	PLN	DTVPLN	- NPLN0969
17	WAND	DECATUR IL	137.7	PLN	DTVPLN	- NPLN0985
17	WTCT-DT	MARION IL	162.4	PLN	DTVPLN	- DTVP0258
17	WKPC-DT	LOUISVILLE KY	206.4	PLN	DTVPLN	- DTVP0262
18	WAND-DT	DECATUR IL	137.7	PLN	DTVPLN	- DTVP0304
19	WUSI-DT	OLNEY IL	0.0	PLN	DTVPLN	- DTVP0351
23	WFHL	DECATUR IL	139.0	PLN	DTVPLN	- NPLN1172
23	KBSI	CAPE GIRARDEAU MO	202.5	PLN	DTVPLN	- NPLN1179
24	WTHI-DT	TERRE HAUTE IN	78.4	PLN	DTVPLN	- DTVP0567
30	WTIU	BLOOMINGTON IN	145.2	PLN	DTVPLN	- NPLN1381
30	WKOI-DT	OWENSBORO KY	130.0	PLN	DTVPLN	- DTVP0788
30	KDNLTV	ST. LOUIS MO	192.9	PLN	DTVPLN	- NPLN1382
31	WKOI	OWENSBORO KY	130.0	PLN	DTVPLN	- NPLN1406

Results for: 16N IL OLNEY	DTVPLN	NPLN0950	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	258945	16516.2	
not affected by terrain losses	258908	16514.2	
lost to NTSC IX	2530	84.8	

lost to additional IX by ATV	2243	28.9
lost to all IX	4773	113.8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
16	WUSI-TV	OLNEY IL	BMLET - 20030515AAM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
14	WFIE	EVANSVILLE IN	118.4	LIC	BLCT - 20031223ABA
15	WICD	CHAMPAIGN IL	138.1	LIC	BLCT - 19821101KG
15	WSEC	JACKSONVILLE IL	185.6	LIC	BLEDT - 20031031ADN
15	WSEC-DT	JACKSONVILLE IL	202.3	PLN	DTVPLN - DTVP0168
15	WKPC-TV	LOUISVILLE KY	206.4	LIC	BLET - 19981105KE
16	WTJR	QUINCY IL	302.2	LIC	BLCT - 19981123KE
16	WTVO	ROCKFORD IL	393.3	LIC	BLCDDT - 20021024AAS
16	WTVO-DT	ROCKFORD IL	393.3	PLN	DTVPLN - DTVP0216
16	WHMB-DT	INDIANAPOLIS IN	202.8	PLN	DTVPLN - DTVP0217
16	WHMB-TV	INDIANAPOLIS IN	202.7	LIC	BLCDDT - 20060619AAG
16	WNDU-TV	SOUTH BEND IN	347.9	LIC	BLCT - 20060627ACE
16	WNKY	BOWLING GREEN KY	263.6	CP MOD	BMPCDDT - 20041105AZO
16	WKNT-DT	BOWLING GREEN KY	263.8	PLN	DTVPLN - DTVP0220
16	WNKY	BOWLING GREEN KY	263.6	APP	BMPCDDT - 20071012AUR
16	WPTD	DAYTON OH	347.9	LIC	BLET - 19920807KG
16	WJKT	JACKSON TN	349.7	LIC	BLCT - 19920224KF
17	WAND	DECATUR IL	137.7	LIC	BLCT - 19790612KG
17	WTCT	MARION IL	162.4	CP MOD	BMPCDDT - 20011119AAX
17	WTCT-DT	MARION IL	162.4	PLN	DTVPLN - DTVP0258
17	WTCT	MARION IL	162.4	LIC	BLCDDT - 20060629ACN
17	WKPC-DT	LOUISVILLE KY	206.4	PLN	DTVPLN - DTVP0262
18	WAND	DECATUR IL	137.7	LIC	BLCDDT - 20020509AAX
18	WAND-DT	DECATUR IL	137.7	PLN	DTVPLN - DTVP0304
19	WUSI-DT	OLNEY IL	0.0	PLN	DTVPLN - DTVP0351
20	WAZE-TV	MADISONVILLE KY	121.0	APP	BMPCDDT - 20040329AKL
23	WBUI	DECATUR IL	137.5	LIC	BLCT - 20010406ABK
23	KBSI	CAPE GIRARDEAU MO	202.6	LIC	BLCT - 20050225ABQ
24	WTHI-DT	TERRE HAUTE IN	78.4	PLN	DTVPLN - DTVP0567
30	WTIU	BLOOMINGTON IN	145.2	LIC	BLET - 20020919ABC
30	WKOH-DT	OWENSBORO KY	130.0	PLN	DTVPLN - DTVP0788
30	KDNL-TV	ST. LOUIS MO	192.9	LIC	BLCT - 19800312KG
31	WKOH	OWENSBORO KY	130.0	LIC	BLCT - 19800221IA
16			192.7	APP	USERRECORD- 01

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	K22HG	ST. CHARLES MO	BDISDTT - 20060327ACC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WAND	DECATUR IL	203.7	LIC	BLCT - 19790612KG
17	WTCT	MARION IL	192.8	CP MOD	BMPCDDT - 20011119AAX
17	WTCT-DT	MARION IL	192.8	PLN	DTVPLN - DTVP0258
17	WTCT	MARION IL	192.8	LIC	BLCDDT - 20060629ACN
17	KMLZ	COLUMBIA MO	167.6	LIC	BLCT - 19930930KR
16			32.6	APP	USERRECORD- 01

Total scenarios = 6

Result key:

1

Scenario 1 Affected station

2 K22HG

Before Analysis

Results for: 17A MO ST. CHARLES

BDISDTT 20060327ACC CP

HAAT	1.0 m, ATV ERP	15.0 kW	
		POPULATION	AREA (sq km)
within Noise Limited Contour		1914790	6601.6
not affected by terrain losses		1914049	6588.6
lost to NTSC IX		15275	124.9
lost to additional IX by ATV		36615	145.9
lost to ATV IX only		49591	209.8
lost to all IX		51890	270.7

Potential Interfering Stations Included in above Scenario 1

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	BMPCDT	20011119AAX	CP

After Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP

HAAT	1.0 m, ATV ERP	15.0 kW	
		POPULATION	AREA (sq km)
within Noise Limited Contour		1914790	6601.6
not affected by terrain losses		1914049	6588.6
lost to NTSC IX		21598	129.9
lost to additional IX by ATV		34407	142.9
lost to ATV IX only		49591	209.8
lost to all IX		56005	272.7

Potential Interfering Stations Included in above Scenario 1

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	BMPCDT	20011119AAX	CP
16N	USERRECORD01		APP

Result key: 2
 Scenario 2 Affected station 2 K22HG
 Before Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP

HAAT	1.0 m, ATV ERP	15.0 kW	
		POPULATION	AREA (sq km)
within Noise Limited Contour		1914790	6601.6
not affected by terrain losses		1914049	6588.6
lost to NTSC IX		15275	124.9
lost to additional IX by ATV		790	2.0
lost to ATV IX only		3175	13.0
lost to all IX		16065	126.9

Potential Interfering Stations Included in above Scenario 2

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	DTVPLN	DTVP0258	PLN

After Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP

HAAT	1.0 m, ATV ERP	15.0 kW	
		POPULATION	AREA (sq km)
within Noise Limited Contour		1914790	6601.6
not affected by terrain losses		1914049	6588.6
lost to NTSC IX		21598	129.9
lost to additional IX by ATV		790	2.0
lost to ATV IX only		3175	13.0
lost to all IX		22388	131.9

Potential Interfering Stations Included in above Scenario 2

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	DTVPLN	DTVP0258	PLN
16N	USERRECORD01		APP

Result key: 3
 Scenario 3 Affected station 2 K22HG
 Before Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP
 HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1914790	6601.6
not affected by terrain losses	1914049	6588.6
lost to NTSC IX	15275	124.9
lost to additional IX by ATV	36615	146.9
lost to ATV IX only	49591	210.8
lost to all IX	51890	271.7

Potential Interfering Stations Included in above Scenario 3

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	BLCDT	20060629ACN	LIC

After Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP
 HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1914790	6601.6
not affected by terrain losses	1914049	6588.6
lost to NTSC IX	21598	129.9
lost to additional IX by ATV	34407	143.9
lost to ATV IX only	49591	210.8
lost to all IX	56005	273.7

Potential Interfering Stations Included in above Scenario 3

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	BLCDT	20060629ACN	LIC
16N	USERRECORD01		APP

Result key: 4
 Scenario 4 Affected station 2 K22HG
 Before Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP
 HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1914790	6601.6
not affected by terrain losses	1914049	6588.6
lost to NTSC IX	15275	124.9
lost to additional IX by ATV	36615	145.9
lost to ATV IX only	49591	209.8
lost to all IX	51890	270.7

Potential Interfering Stations Included in above Scenario 4

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	BMPCDT	20011119AAX	CP

After Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP
 HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1914790	6601.6
not affected by terrain losses	1914049	6588.6
lost to NTSC IX	21598	129.9
lost to additional IX by ATV	34407	142.9
lost to ATV IX only	49591	209.8
lost to all IX	56005	272.7

Potential Interfering Stations Included in above Scenario 4

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	BMPCDT	20011119AAX	CP
16N	USERRECORD01		APP

Result key: 5
 Scenario 5 Affected station 2 K22HG
 Before Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP
 HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1914790	6601.6
not affected by terrain losses	1914049	6588.6
lost to NTSC IX	15275	124.9
lost to additional IX by ATV	790	2.0
lost to ATV IX only	3175	13.0
lost to all IX	16065	126.9

Potential Interfering Stations Included in above Scenario 5

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	DTVPLN	DTVP0258	PLN

After Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP
 HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1914790	6601.6
not affected by terrain losses	1914049	6588.6
lost to NTSC IX	21598	129.9
lost to additional IX by ATV	790	2.0
lost to ATV IX only	3175	13.0
lost to all IX	22388	131.9

Potential Interfering Stations Included in above Scenario 5

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	DTVPLN	DTVP0258	PLN
16N	USERRECORD01		APP

Result key: 6
 Scenario 6 Affected station 2 K22HG
 Before Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP
 HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1914790	6601.6
not affected by terrain losses	1914049	6588.6
lost to NTSC IX	15275	124.9
lost to additional IX by ATV	36615	146.9
lost to ATV IX only	49591	210.8
lost to all IX	51890	271.7

Potential Interfering Stations Included in above Scenario 6

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	BLC DT	20060629ACN	LIC

After Analysis

Results for: 17A MO ST. CHARLES BDISDTT 20060327ACC CP
 HAAT 1.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1914790	6601.6
not affected by terrain losses	1914049	6588.6
lost to NTSC IX	21598	129.9
lost to additional IX by ATV	34407	143.9

lost to ATV IX only	49591	210.8
lost to all IX	56005	273.7

Potential Interfering Stations Included in above Scenario 6

17N IL DECATUR	BLCT	19790612KG	LIC
17N MO COLUMBIA	BLCT	19930930KR	LIC
17A IL MARION	BLC DT	20060629ACN	LIC
16N	USERRECORD01		APP

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Analysis of Interference to Affected Station 3

Analysis of current record
Channel 16 Call City/State Application Ref. No.
USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist (km)	Status	Application Ref. No.
14	WSEC	JACKSONVILLE IL	116.9	LIC	BLET - 20030731AFQ
14	KNLC	ST. LOUIS MO	30.6	LIC	BLC DT - 20061228AAC
14	KNLC- DT	ST. LOUIS MO	30.6	PLN	DTVPLN - DTVP0137
15	WSEC	JACKSONVILLE IL	116.9	LIC	BLED T - 20031031ADN
15	WSEC- DT	JACKSONVILLE IL	129.8	PLN	DTVPLN - DTVP0168
16	WUSI- TV	OLNEY IL	192.7	LIC	BMLET - 20030515AAM
16	WTJR	QUINCY IL	177.8	LIC	BLCT - 19981123KE
16	WHMB- DT	INDIANAPOLIS IN	383.8	PLN	DTVPLN - DTVP0217
16	WHMB- TV	INDIANAPOLIS IN	383.8	LIC	BLC DT - 20060619AAG
16	KTAJ- TV	ST. JOSEPH MO	393.3	LIC	BLCT - 19890215KF
16	WJKT	JACKSON TN	327.8	LIC	BLCT - 19920224KF
17	K22HG	ST. CHARLES MO	32.6	CP	BDISDTT - 20060327ACC
30	KDNL- TV	ST. LOUIS MO	0.9	LIC	BLCT - 19800312KG
31	KDNL- TV	ST. LOUIS MO	0.9	LIC	BLC DT - 20021216AAE
31	KDNL- DT	ST. LOUIS MO	0.9	PLN	DTVPLN - DTVP0829

Total scenarios = 2

Result key: 7
Scenario 1 Affected station 3
Before Analysis

Results for: 16N USERRECORD01 APP

	POPULATION	AREA (sq km)
within Noise Limited Contour	1527574	2269.4
not affected by terrain losses	1520744	2199.0
lost to NTSC IX	53933	204.4
lost to additional IX by ATV	2568	9.8
lost to all IX	56501	214.1

Potential Interfering Stations Included in above Scenario 1

16N IL OLNEY	BMLET	20030515AAM	LIC
16N IL QUINCY	BLCT	19981123KE	LIC
30N MO ST. LOUIS	BLCT	19800312KG	LIC
14A MO ST. LOUIS	BLC DT	20061228AAC	LIC
17A MO ST. CHARLES	BDISDTT	20060327ACC	CP
31A MO ST. LOUIS	BLC DT	20021216AAE	LIC

Result key: 8
Scenario 2 Affected station 3
Before Analysis

Results for: 16N USERRECORD01 APP

	POPULATION	AREA (sq km)
within Noise Limited Contour	1527574	2269.4
not affected by terrain losses	1520744	2199.0
lost to NTSC IX	53933	204.4
lost to additional IX by ATV	131	3.9

lost to all IX

54064

208.3

Potential Interfering Stations Included in above Scenario 2

16N IL OLNEY	BMLET	20030515AAM	LIC
16N IL QUINCY	BLCT	19981123KE	LIC
30N MO ST. LOUIS	BLCT	19800312KG	LIC
14A MO ST. LOUIS	DTVPLN	DTVP0137	PLN
17A MO ST. CHARLES	BDISDTT	20060327ACC	CP
31A MO ST. LOUIS	BLCDT	20021216AAE	LIC

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