

KSPR-DT, Springfield, MO, OET-69 Post-Transition Interference Analysis (worst-case scenarios)

TW Census data selected 2000

Post Transition Data Base Selected /export/home/cdbb/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Record Selected for Analysis

KSPRDT USERRECORD-01 SPRINGFIELD MO US
Channel 19 ERP 1000. kW HAAT 575. m RCAMSL 01023 m
Latitude 037-10-26 Longitude 0092-56-27
Status APP Zone 2 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 does not meet maximum height/power limits
Channel 19 ERP = 1000.00 HAAT = 575.

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	1000.000	580.8	119.5
45.0	1000.000	566.9	118.7
90.0	1000.000	532.8	116.7
135.0	1000.000	563.2	118.5
180.0	1000.000	588.2	119.9
225.0	1000.000	580.7	119.5
270.0	1000.000	598.4	120.5
315.0	1000.000	590.7	120.1

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 quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

KSPR-DT, Springfield, MO, OET-69 Post-Transition Interference Analysis (worst-case scenarios)

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
19	KSPRDT	SPRINGFIELD MO	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KFSM-TV	FORT SMITH AR	184.7	LIC	BLCDT	-20060530AIM
18	KFSM-TV	FORT SMITH AR	184.7	PLN	DTVPLN	-DTVP0629
19	KSCW	WICHITA KS	410.2	PLN	DTVPLN	-DTVP0681
20	KNLJ	JEFFERSON CITY MO	185.8	LIC	BLCDT	-20061219AAX
20	KNLJ	JEFFERSON CITY MO	185.8	PLN	DTVPLN	-DTVP0730

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	KFSM-TV	FORT SMITH AR	BLCDT	-20060530AIM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	KDOR-TV	BARTLESVILLE OK	163.6	PLN	DTVPLN	-DTVP0614
17	KDOR-TV	BARTLESVILLE OK	163.6	CP	BPCDT	-20080307ABP
18	KCPT	KANSAS CITY MO	362.7	LIC	BLEDT	-20060327AGR
18	KCPT	KANSAS CITY MO	362.7	PLN	DTVPLN	-DTVP0642
19	KSPR	SPRINGFIELD MO	188.3	PLN	DTVPLN	-DTVP0687
19	KSPRDT	SPRINGFIELD MO	184.7	APP	USERRECORD-01	

Total scenarios = 2

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 18A AR FORT SMITH BLCDT 20060530AIM LIC
HAAT 286.0 m, ATV ERP 550.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	760782	27165.3
not affected by terrain losses	737387	25979.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1137	20.1
lost to ATV IX only	1137	20.1
lost to all IX	1137	20.1

Potential Interfering Stations Included in above Scenario 1

18A MO KANSAS CITY BLEDT 20060327AGR LIC

KSPR-DT, Springfield, MO, OET-69 Post-Transition Interference Analysis (worst-case scenarios)

19A MO SPRINGFIELD DTVPLN DTVP0687 PLN

After Analysis

Results for: 18A AR FORT SMITH BLC DT 20060530AIM LIC

HAAT 286.0 m, ATV ERP 550.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	760782	27165.3
not affected by terrain losses	737387	25979.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1353	40.2
lost to ATV IX only	1353	40.2
lost to all IX	1353	40.2

Potential Interfering Stations Included in above Scenario 1

18A MO KANSAS CITY BLEDT 20060327AGR LIC

19A MO SPRINGFIELD USERRECORD01 APP

Percent new IX = 0.0293%

Worst case new IX 0.0293% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	KFSM-TV	FORT SMITH AR	DTVPLN	-DTVP0629

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	KDOR-TV	BARTLESVILLE OK	163.6	PLN	DTVPLN	-DTVP0614
17	KDOR-TV	BARTLESVILLE OK	163.6	CP	BPCDT	-20080307ABP
18	KCPT	KANSAS CITY MO	362.7	LIC	BLEDT	-20060327AGR
18	KCPT	KANSAS CITY MO	362.7	PLN	DTVPLN	-DTVP0642
19	KSPR	SPRINGFIELD MO	188.3	PLN	DTVPLN	-DTVP0687
19	KSPRDT	SPRINGFIELD MO	184.7	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3

Scenario 1 Affected station 2

Before Analysis

Results for: 18A AR FORT SMITH DTVPLN DTVP0629 PLN

HAAT 286.0 m, ATV ERP 550.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	760782	27165.3
not affected by terrain losses	737387	25979.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1137	20.1
lost to ATV IX only	1137	20.1
lost to all IX	1137	20.1

KSPR-DT, Springfield, MO, OET-69 Post-Transition Interference Analysis (worst-case scenarios)

Potential Interfering Stations Included in above Scenario 1

18A MO KANSAS CITY	BLEDT	20060327AGR	LIC
19A MO SPRINGFIELD	DTVPLN	DTVP0687	PLN

After Analysis

Results for: 18A AR FORT SMITH DTVPLN DTVP0629 PLN
HAAT 286.0 m, ATV ERP 550.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	760782	27165.3
not affected by terrain losses	737387	25979.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1353	40.2
lost to ATV IX only	1353	40.2
lost to all IX	1353	40.2

Potential Interfering Stations Included in above Scenario 1

18A MO KANSAS CITY	BLEDT	20060327AGR	LIC
19A MO SPRINGFIELD	USERRECORD01		APP

Percent new IX = 0.0293%

Worst case new IX 0.0293% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	KSCW	WICHITA KS	DTVPLN	-DTVP0681

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KWKS	COLBY KS	370.0	LIC	BLEDT	-20070601ATA
19	KWKS	COLBY KS	370.0	PLN	DTVPLN	-DTVP0680
19	KSPR	SPRINGFIELD MO	408.5	PLN	DTVPLN	-DTVP0687
19	KTVG	GRAND ISLAND NE	337.7	APP	BMPCDT	-20080317ACI
19	KTVG	GRAND ISLAND NE	337.7	PLN	DTVPLN	-DTVP0693
19	KTVG	GRAND ISLAND NE	337.7	CP	BPCDT	-19991015ABA
19	KSPRDT	SPRINGFIELD MO	410.2	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.
20	KNLJ	JEFFERSON CITY MO	BLCDDT	-20061219AAX

KSPR-DT, Springfield, MO, OET-69 Post-Transition Interference Analysis (worst-case scenarios)

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KSPR	SPRINGFIELD MO	181.5	PLN	DTVPLN	-DTVP0687
20	KTEJ	JONESBORO AR	332.4	LIC	BLEDT	-20040608AAW
20	KTEJ	JONESBORO AR	332.4	PLN	DTVPLN	-DTVP0715
20	WAZE-TV	MADISONVILLE KY	427.6	APP	BMPCDT	-20040329AKL
20	WAZE-TV	MADISONVILLE KY	424.3	PLN	DTVPLN	-DTVP0725
20	WAZE-TV	MADISONVILLE KY	424.3	CP	BPCDT	-19991101AHC
21	WMEC	MACOMB IL	221.3	LIC	BLEDT	-20031031ADO
21	WMEC	MACOMB IL	221.3	PLN	DTVPLN	-DTVP0760
21	WPXS	MOUNT VERNON IL	219.4	CP MOD	BMPCDT	-20070108AAP
21	WPXS	MOUNT VERNON IL	226.5	PLN	DTVPLN	-DTVP0761
21	WPXS	MOUNT VERNON IL	219.4	APP	BMPCDT	-20070413AGE
21	KTAJ-TV	ST. JOSEPH MO	212.8	LIC	BLCDT	-20060703AAK
21	KTAJ-TV	ST. JOSEPH MO	212.8	PLN	DTVPLN	-DTVP0770
19	KSPRDT	SPRINGFIELD MO	185.8	APP	USERRECORD-01	

Total scenarios = 2

Result key: 5
 Scenario 1 Affected station 4
 Before Analysis

Results for: 20A MO JEFFERSON CITY BLCDT 20061219AAX LIC
 HAAT 293.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	542962	25735.7
not affected by terrain losses	534582	25366.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1198	32.1
lost to ATV IX only	1198	32.1
lost to all IX	1198	32.1

Potential Interfering Stations Included in above Scenario 1

20A AR JONESBORO	BLEDT	20040608AAW	LIC
19A MO SPRINGFIELD	DTVPLN	DTVP0687	PLN

After Analysis

Results for: 20A MO JEFFERSON CITY BLCDT 20061219AAX LIC
 HAAT 293.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	542962	25735.7
not affected by terrain losses	534582	25366.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	227	24.1
lost to ATV IX only	227	24.1
lost to all IX	227	24.1

Potential Interfering Stations Included in above Scenario 1

20A AR JONESBORO	BLEDT	20040608AAW	LIC
19A MO SPRINGFIELD	USERRECORD01		APP

Percent new IX = -0.1820%

KSPR-DT, Springfield, MO, OET-69 Post-Transition Interference Analysis (worst-case scenarios)

Worst case new IX -0.1820% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
20	KNLJ	JEFFERSON CITY MO	DTVPLN	-DTVP0730

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KSPR	SPRINGFIELD MO	181.5	PLN	DTVPLN	-DTVP0687
20	KTEJ	JONESBORO AR	332.4	LIC	BLEDT	-20040608AAW
20	KTEJ	JONESBORO AR	332.4	PLN	DTVPLN	-DTVP0715
20	WAZE-TV	MADISONVILLE KY	427.6	APP	BMPCDT	-20040329AKL
20	WAZE-TV	MADISONVILLE KY	424.3	PLN	DTVPLN	-DTVP0725
20	WAZE-TV	MADISONVILLE KY	424.3	CP	BPCDT	-19991101AHC
21	WMEC	MACOMB IL	221.3	LIC	BLEDT	-20031031ADO
21	WMEC	MACOMB IL	221.3	PLN	DTVPLN	-DTVP0760
21	WPXS	MOUNT VERNON IL	219.4	CP MOD	BMPCDT	-20070108AAP
21	WPXS	MOUNT VERNON IL	226.5	PLN	DTVPLN	-DTVP0761
21	WPXS	MOUNT VERNON IL	219.4	APP	BMPCDT	-20070413AGE
21	KTAJ-TV	ST. JOSEPH MO	212.8	LIC	BLCDT	-20060703AAK
21	KTAJ-TV	ST. JOSEPH MO	212.8	PLN	DTVPLN	-DTVP0770
19	KSPRDT	SPRINGFIELD MO	185.8	APP	USERRECORD-01	

Total scenarios = 2

Result key: 7

Scenario 1 Affected station 5
Before Analysis

Results for: 20A MO JEFFERSON CITY DTVPLN DTVP0730 PLN
HAAT 293.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	542962	25735.7
not affected by terrain losses	534582	25366.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1198	32.1
lost to ATV IX only	1198	32.1
lost to all IX	1198	32.1

Potential Interfering Stations Included in above Scenario 1

20A AR JONESBORO	BLEDT	20040608AAW	LIC
19A MO SPRINGFIELD	DTVPLN	DTVP0687	PLN

After Analysis

Results for: 20A MO JEFFERSON CITY DTVPLN DTVP0730 PLN
HAAT 293.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	542962	25735.7
not affected by terrain losses	534582	25366.3

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lost to NTSC IX	0	0.0
lost to additional IX by ATV	227	24.1
lost to ATV IX only	227	24.1
lost to all IX	227	24.1

Potential Interfering Stations Included in above Scenario 1

20A AR JONESBORO	BLEDT	20040608AAW	LIC
19A MO SPRINGFIELD	USERRECORD01		APP

Percent new IX = -0.1820%

Worst case new IX -0.1820% Scenario 1

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	KSPRDT	SPRINGFIELD MO	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	KFSM-TV	FORT SMITH AR	184.7	LIC	BLCDT -20060530AIM
18	KFSM-TV	FORT SMITH AR	184.7	PLN	DTVPLN -DTVP0629
19	KSCW	WICHITA KS	410.2	PLN	DTVPLN -DTVP0681
20	KNLJ	JEFFERSON CITY MO	185.8	LIC	BLCDT -20061219AAX
20	KNLJ	JEFFERSON CITY MO	185.8	PLN	DTVPLN -DTVP0730

Total scenarios = 4

Result key: 9
Scenario 1 Affected station 6
Before Analysis

Results for: 19A MO SPRINGFIELD USERRECORD01 APP

HAAT 575.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	941885	47718.8
not affected by terrain losses	929868	46751.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	624	60.0
lost to ATV IX only	624	60.0
lost to all IX	624	60.0

Potential Interfering Stations Included in above Scenario 1

18A AR FORT SMITH	BLCDT	20060530AIM	LIC
19A KS WICHITA	DTVPLN	DTVP0681	PLN
20A MO JEFFERSON CITY	BLCDT	20061219AAX	LIC

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