

FIGURE 1 (9 Pages)

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-16-2009 Time: 16:12:10

Record Selected for Analysis

STJAMES USERRECORD-01 ST JAMES2 MN US
Channel 40 ERP 3. kW HAAT 191. m RCAMSL 00496 m
Latitude 044-06-28 Longitude 0094-35-55
Status APP Zone 2 Border Offset Z
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	3.000	189.8	14.7
45.0	3.000	191.1	14.8
90.0	3.000	183.8	14.5
135.0	3.000	180.8	14.4
180.0	3.000	177.2	14.2
225.0	3.000	174.3	14.1
270.0	3.000	179.5	14.3
315.0	3.000	189.4	14.7

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	Proposed Station Call	City/State	ARN
40	STJAMES	ST JAMES2 MN	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	K40JT	ALBERT LEA MN	112.4	APP	BDISTT	-20060703AAX
40	K40JS-D	FROST MN	79.0	LIC	BLDTT	-20090730ACL
40	K18HP	JACKSON MN	64.3	APP	BSTA	-20090727AFK
40	K18HP	JACKSON MN	64.3	APP	BDISDTL	-20090610ADE
40	KPXM-TV	ST. CLOUD MN	156.8	CP	BPCDT	-20080620AMB
40	KPXM-TV	ST. CLOUD MN	158.2	LIC	BLCDDT	-20030903AAU
40	K40BU	ST. JAMES MN	0.0	LIC	BLTTTL	-19951120JZ
40	K40BU	ST. JAMES MN	0.0	CP	BPTTL	-20080602AHQ
40	K40BU	ST. JAMES MN	0.0	CP	BDFCDTL	-20090610ADQ
41	K41IZ-D	ST. JAMES MN	0.3	CP	BPTTL	-20080604AAS
41	K41IZ-D	ST. JAMES MN	0.3	LIC	BLDTT	-20090813AAK

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	K40JT	ALBERT LEA MN	BDISTT	-20060703AAX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	KAAL	AUSTIN MN	67.4	APP	BPCDT	-20080422AAE
36	KAAL	AUSTIN MN	16.9	PLN	DTVPLN	-DTVP1334
39	K56HW	ROCHESTER MN	94.1	CP	BDISDTT	-20060330AKQ
40	K40JX-D	AMES IA	185.7	CP	BDCCDTL	-20061030ATC
40	K40CO	STORM LAKE IA	169.8	LIC	BLTTTL	-20040310AAG
40	K40JS-D	FROST MN	45.8	CP	BDISTTL	-20060912AEO
40	K40JS-D	FROST MN	45.8	LIC	BLDTT	-20090730ACL
40	K40JK-D	GRANITE FALLS MN	219.7	CP	BDCCDTL	-20061018ADF
40	K18HP	JACKSON MN	131.1	APP	BSTA	-20090727AFK
40	K18HP	JACKSON MN	131.1	APP	BDISDTL	-20090610ADE
40	KPXM-TV	ST. CLOUD MN	160.4	CP	BPCDT	-20080620AMB
40	KPXM	ST. CLOUD MN	197.0	PLN	DTVPLN	-DTVP1439
40	KPXM-TV	ST. CLOUD MN	197.0	LIC	BLCDDT	-20030903AAU
40	K40BU	ST. JAMES MN	112.4	CP	BPTTL	-20080602AHQ
40	K40BU	ST. JAMES MN	112.4	CP	BDFCDTL	-20090610ADQ
40	K40FZ	BROOKINGS SD	283.6	CP	BDFCDTT	-20060331BAF
41	K41EG-D	JACKSON MN	131.1	LIC	BLDTT	-20090813ABH
41	K41IZ-D	ST. JAMES MN	112.2	LIC	BLDTT	-20090813AAK
42	KIMT	MASON CITY IA	55.5	LIC	BLCDDT	-20071113AEE
42	KIMT	MASON CITY IA	51.3	PLN	DTVPLN	-DTVP1498
42	KIMT	MASON CITY IA	55.5	CP	BPCDT	-20080613AAA
55	DK55FJ	AUSTIN MN	17.5	LIC	BLTTTL	-19920313JJ

40 STJAMES ST JAMES2 MN 112.4 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.
40	K40JS-D	FROST MN	BLDTT	-20090730ACL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	K39JI	FROST MN	0.0	LIC	BLTTL	-20070316AAP
39	K39JI	FROST MN	0.0	APP	BSTA	-20061006AAF
39	K56HW	ROCHESTER MN	137.2	CP	BDISDTT	-20060330AKQ
39	K39FE	WILLMAR MN	196.7	CP	BDFCDTT	-20090617ADD
40	K40JX-D	AMES IA	179.1	CP	BDCCDTL	-20061030ATC
40	K40CO	STORM LAKE IA	133.6	LIC	BLTTL	-20040310AAG
40	K40JT	ALBERT LEA MN	45.8	APP	BDISTT	-20060703AAX
40	K40JT	ALBERT LEA MN	45.8	LIC	BLTT	-20070427ADN
40	K40JK-D	GRANITE FALLS MN	188.8	CP	BDCCDTL	-20061018ADF
40	K18HP	JACKSON MN	85.6	APP	BSTA	-20090727AFK
40	K18HP	JACKSON MN	85.6	APP	BDISDTL	-20090610ADE
40	KPXM-TV	ST. CLOUD MN	175.7	CP	BPCDT	-20080620AMB
40	KPXM	ST. CLOUD MN	200.6	PLN	DTVPLN	-DTVPI1439
40	KPXM-TV	ST. CLOUD MN	200.6	LIC	BLCDT	-20030903AAU
40	K40BU	ST. JAMES MN	79.0	CP	BPTTL	-20080602AHQ
40	K40BU	ST. JAMES MN	79.0	CP	BDFCDTL	-20090610ADQ
40	K40FZ	BROOKINGS SD	242.1	CP	BDFCDTT	-20060331BAF
41	K41KG-D	GRANITE FALLS MN	188.8	CP	BDCCDTL	-20061018ADD
41	K41EG-D	JACKSON MN	85.6	LIC	BLDTT	-20090813ABH
41	K41IZ-D	ST. JAMES MN	78.8	LIC	BLDTT	-20090813AAK
40	STJAMES	ST JAMES2 MN	79.0	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.
40	K18HP	JACKSON MN	BSTA	-20090727AFK

(NOTE: THIS AFFECTED STATION IS AN STA THAT DOES NOT REQUIRE PROTECTION.
THEREFORE, THIS STUDY HAS BEEN REMOVED.)

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
40	K18HP	JACKSON MN	BDISDTL -20090610ADE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
39	K56HW	ROCHESTER MN	218.2	CP	BDISDTT -20060330AKQ
39	K39FE	WILLMAR MN	173.8	CP	BDFCDTT -20090617ADD
40	K40JX-D	AMES IA	207.3	CP	BDCCDTL -20061030ATC
40	K40CO	STORM LAKE IA	103.9	LIC	BLTTL -20040310AAG
40	K40JS-D	FROST MN	85.6	LIC	BLDTT -20090730ACL
40	K40JK-D	GRANITE FALLS MN	141.5	CP	BDCCDTL -20061018ADF
40	KPXM-TV	ST. CLOUD MN	219.1	CP	BPCDT -20080620AMB
40	KPXM	ST. CLOUD MN	222.5	PLN	DTVPLN -DTVP1439
40	KPXM-TV	ST. CLOUD MN	222.5	LIC	BLCDDT -20030903AAU
40	K40BU	ST. JAMES MN	64.3	CP	BPTTL -20080602AHQ
40	K40BU	ST. JAMES MN	64.3	CP	BDFCDTL -20090610ADQ
40	K40FZ	BROOKINGS SD	163.9	CP	BDFCDTT -20060331BAF
41	K41KG-D	GRANITE FALLS MN	141.5	CP	BDCCDTL -20061018ADD
41	K41EG-D	JACKSON MN	0.0	LIC	BLDTT -20090813ABH
41	K41IZ-D	ST. JAMES MN	64.4	LIC	BLDTT -20090813AAK
40	STJAMES	ST JAMES2 MN	64.3	APP	USERRECORD-01

Total scenarios = 2

Result key: 3

Scenario 1 Affected station 4 K18HP

Before Analysis

Results for: 40A MN JACKSON BDISDTL 20090610ADE APP

HAAT 1.0 m, ATV ERP 3.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	41304	3517.8
not affected by terrain losses	41304	3517.8
lost to NTSC IX	14	1.0
lost to additional IX by ATV	1180	290.3
lost to ATV IX only	1194	291.2
lost to all IX	1194	291.2

Potential Interfering Stations Included in above Scenario 1

40N MN ST. JAMES	BPTTL	20080602AHQ	CP
40A MN ST. JAMES	BDFCDTL	20090610ADQ	CP
41A MN JACKSON	BLDTT	20090813ABH	LIC

After Analysis

Results for: 40A MN JACKSON BDISDTL 20090610ADE APP

HAAT 1.0 m, ATV ERP 3.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	41304	3517.8
not affected by terrain losses	41304	3517.8
lost to NTSC IX	148	18.9
lost to additional IX by ATV	1046	272.4
lost to ATV IX only	1194	291.2

lost to all IX 1194 291.2

Potential Interfering Stations Included in above Scenario 1

40N MN ST. JAMES	BPTTL	20080602AHQ	CP
40A MN ST. JAMES	BDFCDTL	20090610ADQ	CP
41A MN JACKSON	BLDTT	20090813ABH	LIC
40N MN ST JAMES2	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

(NOTE: WORST-CASE SCENARIO TO THIS AFFECTED STATION IS SHOWN-ALL OTHERS HAVE BEEN REMOVE. ALL REMOVED SCENARIOS SHOW THE SAME OR LESS NEW INTERFERENCE THAN SHOWN BY THE WORST-CASE SCENARIO.)

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	KPXM-TV	ST. CLOUD MN	BPCDT	-20080620AMB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	STJAMES	ST JAMES2 MN	156.8	APP	USERRECORD-01	

Total scenarios = 2

Result key: 5

Scenario 1 Affected station 5 KPXM-TV

Before Analysis

Results for: 40A MN ST. CLOUD BPCDT 20080620AMB CP

HAAT 433.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3459710	37136.5
not affected by terrain losses	3449501	36607.2
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: 40A MN ST. CLOUD BPCDT 20080620AMB CP

HAAT 433.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3459710	37136.5

not affected by terrain losses	3449501	36607.2
lost to NTSC IX	2035	94.2
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	2035	94.2

Potential Interfering Stations Included in above Scenario 1

40N MN ST JAMES2 USERRECORD01 APP

Percent new IX = 0.0590%

Worst case new IX 0.0590% Scenario 1

(NOTE: WORST-CASE SCENARIO TO THIS AFFECTED STATION IS SHOWN--ALL OTHERS HAVE BEEN REMOVE. ALL REMOVED SCENARIOS SHOW THE SAME OR LESS NEW INTERFERENCE THAN SHOWN BY THE WORST-CASE SCENARIO.)

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	KPXM-TV	ST. CLOUD MN	BLCDDT	-20030903AAU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	STJAMES	ST JAMES2 MN	158.2	APP	USERRECORD-01	

Total scenarios = 2

Result key: 7

Scenario 1 Affected station 6 KPXM-TV

Before Analysis

Results for: 40A MN ST. CLOUD BLCDDT 20030903AAU LIC

HAAT 430.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3267665	30699.6
not affected by terrain losses	3261254	30581.3
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: 40A MN ST. CLOUD BLCDDT 20030903AAU LIC

HAAT 430.0 m, ATV ERP 1000.0 kW

POPULATION	AREA (sq km)
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within Noise Limited Contour	3267665	30699.6
not affected by terrain losses	3261254	30581.3
lost to NTSC IX	755	4.9
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	755	4.9

Potential Interfering Stations Included in above Scenario 1

40N MN ST JAMES2 USERRECORD01 APP

Percent new IX = 0.0232%

Worst case new IX 0.0232% Scenario 1

(NOTE: WORST-CASE SCENARIO TO THIS AFFECTED STATION IS SHOWN--ALL OTHERS HAVE BEEN REMOVE. ALL REMOVED SCENARIOS SHOW THE SAME OR LESS NEW INTERFERENCE THAN SHOWN BY THE WORST-CASE SCENARIO.)

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	K40BU	ST. JAMES MN	BLTTL	-19951120JZ

(NOTE: AFFECTED STATION IS THE STATION BEING MODIFIED BY THIS PROPOSAL. THE STUDIES TO THIS AFFECTED STATION ARE, THEREFORE, REMOVED.)

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	K40BU	ST. JAMES MN	BPTTL	-20080602AHQ

(NOTE: AFFECTED STATION IS THE STATION BEING MODIFIED BY THIS PROPOSAL. THE STUDIES TO THIS AFFECTED STATION ARE, THEREFORE, REMOVED.)

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	K40BU	ST. JAMES MN	BDFCDTL	-20090610ADQ

(NOTE: AFFECTED STATION IS THE STATION BEING MODIFIED BY THIS PROPOSAL. THE STUDIES TO THIS AFFECTED STATION ARE, THEREFORE, REMOVED.)

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
41	K41IZ-D	ST. JAMES MN	BPTTL	-20080604AAS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	K40JS-D	FROST MN	78.8	LIC	BLDTT	-20090730ACL
40	K40JK-D	GRANITE FALLS MN	110.1	CP	BDCCDTL	-20061018ADF
40	K18HP	JACKSON MN	64.4	APP	BDISDTL	-20090610ADE
40	K40BU	ST. JAMES MN	0.3	CP	BPTTL	-20080602AHQ
40	K40BU	ST. JAMES MN	0.3	CP	BDFCDTL	-20090610ADQ
40	K40FZ	BROOKINGS SD	175.0	CP	BDFCDTT	-20060331BAF
41	KTIV	SIOUX CITY IA	214.1	CP	BPCDT	-19991101AIH
41	KTIV	SIOUX CITY IA	214.1	PLN	DTVPLN	-DTVP1467
41	K58CM	DULUTH MN	354.8	CP	BDISDTT	-20060331ACI
41	K41JK-D	GRAND RAPIDS MN	353.6	CP	BDFCDTL	-20070321ADC
41	K41KG-D	GRANITE FALLS MN	110.1	CP	BDCCDTL	-20061018ADD
41	K41EG-D	JACKSON MN	64.4	LIC	BLDTT	-20090813ABH
42	K42HX-D	JACKSON MN	64.4	CP	BDCCDTL	-20061019ACT
42	K42AV	ST. JAMES MN	0.3	CP	BPTTL	-20080602AHS
56	K56IT	ST. JAMES MN	0.3	CP	BNPTTL	-20000831BSF
40	STJAMES	ST JAMES2 MN	0.3	APP	USERRECORD-01	

Total scenarios = 2

Result key: 24

Scenario 1 Affected station 10 K41IZ-D
Before Analysis

Results for: 41N MN ST. JAMES	BPTTL	20080604AAS	CP
	POPULATION	AREA (sq km)	
within Noise Limited Contour	10676	902.8	
not affected by terrain losses	10676	902.8	
lost to NTSC IX	447	97.6	
lost to additional IX by ATV	10190	795.4	
lost to all IX	10637	893.0	

Potential Interfering Stations Included in above Scenario 1

40N MN ST. JAMES	BPTTL	20080602AHQ	CP
56N MN ST. JAMES	BNPTTL	20000831BSF	CP
40A MN ST. JAMES	BDFCDTL	20090610ADQ	CP
41A MN JACKSON	BLDTT	20090813ABH	LIC

After Analysis

Results for: 41N MN ST. JAMES	BPTTL	20080604AAS	CP
	POPULATION	AREA (sq km)	
within Noise Limited Contour	10676	902.8	
not affected by terrain losses	10676	902.8	
lost to NTSC IX	776	187.3	

lost to additional IX by ATV	9861	705.7
lost to all IX	10637	893.0

Potential Interfering Stations Included in above Scenario 1

40N MN ST. JAMES	BPTTL	20080602AHQ	CP
56N MN ST. JAMES	BNPTTL	20000831BSF	CP
40A MN ST. JAMES	BDFCDTL	20090610ADQ	CP
41A MN JACKSON	BLDTT	20090813ABH	LIC
40N MN ST JAMES2	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

(NOTE: WORST-CASE SCENARIO TO THIS AFFECTED STATION IS SHOWN--ALL OTHERS HAVE BEEN REMOVE. ALL REMOVED SCENARIOS SHOW THE SAME OR LESS NEW INTERFERENCE THAN SHOWN BY THE WORST-CASE SCENARIO.)

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
41	K41IZ-D	ST. JAMES MN	BLDTT	-20090813AAK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	K40JS-D	FROST MN	78.8	LIC	BLDTT	-20090730ACL
40	K40JK-D	GRANITE FALLS MN	110.1	CP	BDCCDTL	-20061018ADF
40	K18HP	JACKSON MN	64.4	APP	BDISDTL	-20090610ADE
40	K40BU	ST. JAMES MN	0.3	CP	BPTTL	-20080602AHQ
40	K40BU	ST. JAMES MN	0.3	CP	BDFCDTL	-20090610ADQ
40	K40FZ	BROOKINGS SD	175.0	CP	BDFCDTT	-20060331BAF
41	KTIV	SIOUX CITY IA	214.1	CP	BPCDT	-19991101AIH
41	KTIV	SIOUX CITY IA	214.1	PLN	DTVPLN	-DTVP1467
41	K58CM	DULUTH MN	354.8	CP	BDISDTT	-20060331ACI
41	K41JK-D	GRAND RAPIDS MN	353.6	CP	BDFCDTL	-20070321ADC
41	K41KG-D	GRANITE FALLS MN	110.1	CP	BDCCDTL	-20061018ADD
41	K41EG-D	JACKSON MN	64.4	LIC	BLDTT	-20090813ABH
41	K59FR	RED LAKE MN	416.7	APP	BDISDTT	-20090824AKX
42	K42HX-D	JACKSON MN	64.4	CP	BDCCDTL	-20061019ACT
42	K42AV	ST. JAMES MN	0.3	CP	BPTTL	-20080602AHS
42	K42FI	WATERTOWN SD	216.7	CP	BDFCDTT	-20060331BET
40	STJAMES	ST JAMES2 MN	0.3	APP	USERRECORD-01	

Proposal causes no interference

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