

results_KMCYtoKNRR.txt
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-29-2002 Time: 09:40:47

Record Selected for Analysis

KMCY BPCDT -19991028AEA MINOT ND US
Channel 15 ERP 500 kW HAAT 216 m RCAMSL 00834 m
Latitude 48 -3 -11 Longitude 101 -23-5
Status APP Zone 2 Border C
Last update Cutoff date Docket
Comments
Applicant FORUM COMMUNICATIONS COMPANY

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	500.000	258.4	84.1
45.0	500.000	279.3	87.2
90.0	500.000	256.8	83.9
135.0	500.000	179.0	77.5
180.0	500.000	174.7	77.1
225.0	500.000	187.9	78.2
270.0	500.000	190.4	78.4
315.0	500.000	192.4	78.5

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 within the Canadian coordination distance
Distance to border = 105.3km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

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Channel	Call	Proposed Station City/State	ARN	
15	KMCY	MI NOT ND	BPCDT	19991028AEA

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist (km)	Status	Application Ref.	No.
15	KNRR	PEMBINA ND	310.9	CP	OTHER	-WAL377

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Analysis of Interference to Affected Station 1

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
15	KNRR- DT	PEMBINA ND	DTVPLN	- DTVP0171

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist (km)	Status	Application	Ref. No.
15	KVRR	FARGO ND	272.6	PLN	DTVPLN	- NPLN0956
15	KMCY- DT	MINOT ND	310.9	PLN	DTVPLN	- DTVP0170
16	DNCE	CROOKSTON MN	147.8	PLN	DTVPLN	- NPLN1915

Results for: 15A ND PEMBINA DTVPLN DTVP0171 PLN
HAAT 427.0 m, ATV ERP 486.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	36397	30075.1
not affected by terrain losses	36397	30075.1
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

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
12	KNRR	PEMBINA ND	DTVPLN	- NPLN0944

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist (km)	Status	Application Ref.	No.
11	KVLYTV	FARGO ND	183.8	PLN	DTVPLN	- NPLN0938
12	KCCWTV	WALKER MN	317.3	PLN	DTVPLN	- NPLN0843
12	KXMBTV	BISMARCK ND	368.8	PLN	DTVPLN	- NPLN0943

Results for: 12N ND PEMBINA DTVPLN NPLN0944 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	36391	30059.0
not affected by terrain losses	35483	29511.9
lost to NTSC IX	1326	1150.5
lost to additional IX by ATV	0	0.0
lost to all IX	1326	1150.5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
15	KNRR	PEMBINA ND	OTHER - WAL377

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KVRR	FARGO ND	272.6	LIC	BLCT - 20010914ABC

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15	KMCY	MINOT ND	310.9	APP	BPCDT	- 19991028AEA
15	KMCY-DT	MINOT ND	310.9	PLN	DTVPLN	- DTVP0170
16	NEW	CROOKSTON MN	127.7	APP	BNPEDT	- 20000706AGG
16	NEW	CROOKSTON MN	127.7	APP	BNPEDT	- 20010323ABR

Total scenarios = 2

Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 15A ND PEMBINA OTHER WAL377 CP
 HAAT 0.0 m, ATV ERP 750.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	48282	23535.0
not affected by terrain losses	48282	23535.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	154	136.1
lost to ATV IX only	154	136.1
lost to all IX	154	136.1

Potential Interferring Stations Included in above Scenario 1

16A MN CROOKSTON BNPEDT 20000706AGG APP

After Analysis

Results for: 15A ND PEMBINA OTHER WAL377 CP
 HAAT 0.0 m, ATV ERP 750.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	48282	23535.0
not affected by terrain losses	48282	23535.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	662	408.3
lost to ATV IX only	662	408.3
lost to all IX	662	408.3

Potential Interferring Stations Included in above Scenario 1

16A MN CROOKSTON BNPEDT 20000706AGG APP
 15A ND MINOT BPCDT 19991028AEA APP

Result key: 2
 Scenario 2 Affected station 1
 Before Analysis

Results for: 15A ND PEMBINA OTHER WAL377 CP
 HAAT 0.0 m, ATV ERP 750.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	48282	23535.0
not affected by terrain losses	48282	23535.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	206	172.1
lost to ATV IX only	206	172.1
lost to all IX	206	172.1

Potential Interferring Stations Included in above Scenario 2

16A MN CROOKSTON BNPEDT 20010323ABR APP

After Analysis

Results for: 15A ND PEMBINA OTHER WAL377 CP

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HAAT	0.0 m,	ATV ERP	750.0 kW
		POPULATION	AREA (sq km)
within Noise Limited Contour		48282	23535.0
not affected by terrain losses		48282	23535.0
lost to NTSC IX		0	0.0
lost to additional IX by ATV		714	444.3
lost to ATV IX only		714	444.3
lost to all IX		714	444.3

Potential Interfering Stations Included in above Scenario 2

16A MN CROOKSTON	BNP EDT	20010323ABR	APP
15A ND MINOT	BPCDT	19991028AEA	APP

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TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-29-2002 Time: 09:34:49

Record Selected for Analysis

KNRR OTHER -WAL377 PEMBINA ND US
Channel 15 ERP 750 kW HAAT 0 m RCAMSL 00656 m
Latitude 48 -59-44 Longitude 97 -24-28
Status CP 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 meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50, 90) (km)
0.0	495.727	33.0	55.3
45.0	467.483	33.0	55.0
90.0	632.043	414.8	102.9
135.0	730.627	413.8	104.2
180.0	708.588	411.4	103.7
225.0	562.467	407.0	101.2
270.0	618.348	33.0	56.3
315.0	590.742	33.0	56.1

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 within the Canadian coordination distance
Distance to border = 0.6km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

results_KNRRtoKMCY.txt

Channel	Call	Proposed Station City/State	ARN	
15	KNRR	PEMBINA ND	OTHER	WAL377

Stations Potentially Affected by Proposed Station

Chan 15	Call KMCY	City/State MINOT ND	Dist(km) 310.9	Status APP	Application Ref. No. BPCDT - 19991028AEA
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Analysis of Interference to Affected Station 1

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
15	KMCY- DT	MINOT ND	DTVPLN	- DTVP0170

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist (km)	Status	Application	Ref. No.
14	KMCY	MINOT ND	0.0	PLN	DTVPLN	- NPLN0955
14	KXMD-DT	WILLISTON ND	186.2	PLN	DTVPLN	- DTVP0133
15	KXGN-DT	GLENDIVE MT	270.9	PLN	DTVPLN	- DTVP0168
15	KVRR	FARGO ND	417.3	PLN	DTVPLN	- NPLN0956
15	KNRR-DT	PEMBINA ND	310.9	PLN	DTVPLN	- DTVP0171
15	KQSD-DT	LOWRY SD	326.7	PLN	DTVPLN	- DTVP0182
16	KBMY-DT	BISMARCK ND	168.8	PLN	DTVPLN	- DTVP0220

Results for:	15A ND MINOT	DTVPLN	DTVP0170	PLN
HAAT	829.0 m, ATV ERP	50.0 kW		

	POPULATION	AREA (sq km)
within Noise Limited Contour	66971	12066.5
not affected by terrain losses	66971	12066.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	4.0
lost to ATV IX only	0	4.0
lost to all IX	0	4.0

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
14	KMCY	MINOT ND	DTVPLN	- NPLN0955

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist (km)	Status	Application Ref.	No.
14	KJRR-DT	JAMESTOWN ND	232.9	PLN	DTVPLN	-DTVP0132
14	KXMD-DT	WILLISTON ND	186.2	PLN	DTVPLN	-DTVP0133
15	KMCY-DT	MINOT ND	0.0	PLN	DTVPLN	-DTVP0170

Results for: 14N ND MINOT	DTVPLN	NPLN0955	PLN
	POPULATION	AREA (sq km)	

within Noise Limited Contour	66971	12066.5
not affected by terrain losses	66971	12054.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1295	783.0
lost to all IX	1295	783.0

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	KMCY	MINOT ND	BPCDT	- 19991028AEA

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Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	KMCY	MINOT ND	0.1	LIC	BLCT	-19850625KF
14	KXMD-TV	WILLISTON ND	186.2	CP MOD	BMPCDT	-20000501AEV
14	KXMD-DT	WILLISTON ND	186.2	PLN	DTVPLN	-DTVP0133
15	KXGN-DT	GLENDIVE MT	270.9	PLN	DTVPLN	-DTVP0168
15	KVRR	FARGO ND	417.3	LIC	BLCT	-20010914ABC
15	KNRR-DT	PEMBINA ND	310.9	PLN	DTVPLN	-DTVP0171
15	KNRR	PEMBINA ND	310.9	CP	OTHER	-WAL377
15	KQSD-TV	LOWRY SD	322.9	CP	BPEDT	-20000217AAH
15	KQSD-DT	LOWRY SD	326.6	PLN	DTVPLN	-DTVP0182
16	KBY	BISMARCK ND	168.6	APP	BPCDT	-19991028AEC
16	KBY-DT	BISMARCK ND	168.8	PLN	DTVPLN	-DTVP0220

Total scenarios = 2

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 15A ND MINOT BPCDT 19991028AEA APP
HAAT 216.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	79390	22248.7
not affected by terrain losses	79386	22188.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	14	24.1
lost to ATV IX only	14	24.1
lost to all IX	14	24.1

Potential Interfering Stations Included in above Scenario 1

15A SD LOWRY	BPEDT	20000217AAH	CP
15A ND PEMBINA	DTVPLN	DTVP0171	PLN

After Analysis

Results for: 15A ND MINOT BPCDT 19991028AEA APP
HAAT 216.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	79390	22248.7
not affected by terrain losses	79386	22188.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20	32.1
lost to ATV IX only	20	32.1
lost to all IX	20	32.1

Potential Interfering Stations Included in above Scenario 1

15A SD LOWRY	BPEDT	20000217AAH	CP
15A ND PEMBINA	OTHER	WAL377	CP

Result key: 2
Scenario 2 Affected station 1
Before Analysis

Results for: 15A ND MINOT BPCDT 19991028AEA APP
HAAT 216.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	79390	22248.7
not affected by terrain losses	79386	22188.4
lost to NTSC IX	0	0.0

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lost to additional IX by ATV	16	28.1
lost to ATV IX only	16	28.1
lost to all IX	16	28.1

Potential Interfering Stations Included in above Scenario 2

15A SD LOWRY	DTVPLN	DTVP0182	PLN
15A ND PEMBINA	DTVPLN	DTVP0171	PLN

After Analysis

Results for: 15A ND MINOT BPCDT 19991028AEA APP
 HAAT 216.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	79390	22248.7
not affected by terrain losses	79386	22188.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	22	36.1
lost to ATV IX only	22	36.1
lost to all IX	22	36.1

Potential Interfering Stations Included in above Scenario 2

15A SD LOWRY	DTVPLN	DTVP0182	PLN
15A ND PEMBINA	OTHER	WAL377	CP

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