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## FM Interference Study

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 Heights are displayed in meters and distances are shown in kilometers.

Job title: Williston, ND NC/E Station

Latitude: N 48° 02' 52.0"

Channel: 214C2 (90.7 MHz)

Longitude: W 103° 59' 01.0"

Database: DW 10/16/2007 5:27:58 PM, FCC

Safety zone: 65.0

ERP: 10.0 kW

HAAT: 166.0

Call	Auth	City of license	St	Chan	HAAT	ERP	Latitude	Br-to	Dist	Req
File Number		(Licensee)		Freq	HMSL	(kW)	Longitude	-from	diff	status
KSRE	Lic	Minot	ND	* 6 z2	323.0	100 H	N 48° 03' 03.0"	88.9	193.4	128.2
BLET-19831201KF				82	946.0	V	W 101° 23' 24.0"	270.9	65.2	CLEAR

- Licensee: Prairie Public Broadcasting, Inc.

- Primary station: KBME-TV Bismarck, ND

Proposed 214C2 71 dBuV/m F(50,10) Ix contour = 22.8

KSRE 62 47 dBuV/m F(50,50) Svc contour = 105.4

KBLW	Lic	Billings	MT	* 211 A	137.0	0.45 H	N 45° 45' 37.0"	234.8	425.0	41.4
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BLED-20060320AGX				90.1	1187.0	0.45 V	W 108° 27' 09.0"	51.5	383.5	CLEAR
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- Licensee: Hi-Line Radio Fellowship, Inc.

- KBVS changed to KBLW 8/27/02 per Call Sign History; License granted 3/27/2006 per 46203-3/30/2006;

Proposed 214C2 100 dBuV/m F(50,10) Ix contour = 4.0

KBLW 211A 60 dBuV/m F(50,50) Svc contour = 17.8

Proposed 214C2 60 dBuV/m F(50,50) Svc contour = 40.1

KBLW 211A 100 dBuV/m F(50,10) Ix contour = 1.4

ALLOC		Regina	SA	212 C	0.0	0 H	N 50° 28' 58.0"	352.2	273.5	113.5
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				90.3	0.0	0 V	W 104° 30' 20.0"	171.8	160.0	CLEAR
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- **Assumed** ERP: 100 kW; HAAT: 600 m

Proposed 214C2 94 dBuV/m F(50,10) Ix contour = 5.9

ALLOC 212C 54 dBuV/m F(50,50) Svc contour = 107.5

Proposed 214C2 60 dBuV/m F(50,50) Svc contour = 40.1

ALLOC 212C 100 dBuV/m F(50,10) Ix contour = 13.7

KCND	Lic	Bismarck	ND	* 213 C1	371.0	50 H	N 46° 35' 23.0"	122.9	290.2	143.4
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BLED-19970919KB				90.5	951.0	50 V	W 100° 48' 02.0"	305.2	146.8	CLEAR
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- Licensee: Prairie Public Broadcasting, Inc.

Proposed 214C2 54 dBuV/m F(50,10) Ix contour = 59.3

KCND 213C1 60 dBuV/m F(50,50) Svc contour = 70.5

Proposed 214C2 60 dBuV/m F(50,50) Svc contour = 40.1

KCND 213C1 54 dBuV/m F(50,10) Ix contour = 103.3

NEW	App	Buford	ND	* 214 C2	164.0	10 H	N 48° 02' 52.0"	0.0	0.0	144.9
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BPED-20000421AAQ				90.7	793.0	10 V	W 103° 59' 01.0"	0.0	-144.9	SHORT
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- Licensee: Hi-Line Radio Fellowship, Inc.

Proposed 214C2 40 dBuV/m F(50,10) Ix contour = 105.0

NEW 214C2 60 dBuV/m F(50,50) Svc contour = 39.9

Proposed 214C2 60 dBuV/m F(50,50) Svc contour = 40.1

NEW 214C2 40 dBuV/m F(50,10) Ix contour = 104.7

ALLOC		Estevan	SA	215 B	0.0	0 H	N 49° 24' 18.0"	16.8	157.9	142.3
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				90.9	0.0	0 V	W 103° 21' 14.0"	197.3	15.6	CLOSE
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- **Assumed** ERP: 50 kW; HAAT: 150 m

Proposed 214C2 48 dBuV/m F(50,10) Ix contour = 77.3

ALLOC 215B 54 dBuV/m F(50,50) Svc contour = 65.1

Proposed 214C2 60 dBuV/m F(50,50) Svc contour = 40.1

ALLOC 215B 54 dBuV/m F(50,10) Ix contour = 78.1

ALLOC		Wapella	SA	216 A	0.0	0 H	N 50° 17' 00.0"	29.9	289.3	44.7
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