

12-09-2004 30 Sec. Terrain Data

WBOS

Channel = 225B

Max ERP = 18.5 kW

RCAMSL = 247 M

N. Lat = 42 20 50

W. Lng = 71 04 59

Protected  
54 dBu

WMGX

Channel = 226B

Max ERP = 50 kW

RCAMSL = 158 M

N. Lat = 43 41 17

W. Lng = 70 15 27

Interfering  
48 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
010.0	018.5000	0229.4	063.5	213.1	050.0000	0145.1	102.9	46.8
011.0	018.5000	0228.2	063.4	212.5	050.0000	0145.5	102.6	46.9
012.0	018.5000	0227.4	063.4	211.9	050.0000	0145.5	102.3	46.9
013.0	018.5000	0226.9	063.3	211.3	050.0000	0145.9	102.0	47.0
014.0	018.5000	0227.0	063.3	210.7	050.0000	0145.9	101.6	47.1
015.0	018.5000	0227.1	063.4	210.1	050.0000	0146.2	101.3	47.2
016.0	018.5000	0227.9	063.4	209.5	050.0000	0146.5	101.0	47.3
017.0	018.5000	0228.5	063.5	208.9	050.0000	0146.5	100.7	47.4
018.0	018.5000	0229.2	063.5	208.3	050.0000	0146.9	100.4	47.4
019.0	018.5000	0230.3	063.6	207.6	050.0000	0146.9	100.1	47.5
020.0	018.5000	0231.9	063.8	207.0	050.0000	0147.4	099.9	47.6
021.0	018.5000	0233.3	063.9	206.4	050.0000	0148.0	099.6	47.7
022.0	018.5000	0234.1	064.0	205.7	050.0000	0148.0	099.5	47.7
023.0	018.5000	0234.6	064.0	205.1	050.0000	0148.8	099.4	47.8
024.0	018.5000	0234.9	064.0	204.5	050.0000	0149.8	099.3	47.8
025.0	018.5000	0234.8	064.0	203.8	050.0000	0149.8	099.3	47.8
026.0	018.5000	0234.4	064.0	203.2	050.0000	0150.8	099.4	47.8
027.0	018.5000	0234.2	064.0	202.5	050.0000	0150.8	099.5	47.8
028.0	018.5000	0234.4	064.0	201.9	050.0000	0151.8	099.6	47.8
029.0	018.5000	0234.7	064.0	201.2	050.0000	0152.8	099.7	47.8
030.0	018.5000	0235.0	064.0	200.6	050.0000	0152.8	099.8	47.8
031.0	018.5000	0235.8	064.1	200.0	050.0000	0153.5	100.0	47.8
032.0	018.5000	0236.9	064.2	199.3	050.0000	0154.0	100.1	47.8
033.0	018.5000	0237.9	064.3	198.7	050.0000	0154.0	100.3	47.7
034.0	018.5000	0239.1	064.4	198.1	050.0000	0154.4	100.5	47.7
035.0	018.5000	0240.0	064.4	197.4	050.0000	0154.6	100.8	47.6
036.0	018.5000	0240.4	064.5	196.8	050.0000	0154.6	101.1	47.6
037.0	018.5000	0240.3	064.5	196.2	050.0000	0154.6	101.5	47.5
038.0	018.5000	0240.2	064.5	195.6	050.0000	0154.6	101.9	47.4
039.0	018.5000	0240.5	064.5	195.1	050.0000	0154.4	102.3	47.2
040.0	018.5000	0241.2	064.5	194.5	050.0000	0154.3	102.8	47.1

### FM Over Calculation

At no point on the WBOS 54 dBu (50/50) protected contour does the proposed WMGX deliver more than 48 dBu (50/10) interfering.

### ATTACHMENT #29B

### Section 73.215 Clearance to WBOS

#### WMGX (FM)

Channel 226B – 93.1 MHz

50 kW ERP – 135 m HAAT

Portland, Maine

December 2004

**BROMO** BROADCAST  
TECHNICAL CONSULTANTS  
**COMMUNICATIONS**