



CMBE

ENGINEERING STATEMENT

Prepared For

Mountain Wireless, Inc.

WFMX Channel 300C2 CP (107.9 MHz)
Skowhegan, Maine
Facility ID 26388
25.0 kW ERP
103 M HAAT

An application using §73.215 of the Commission's Rules

October 5, 2007

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The following engineering statement and associated exhibits have been prepared on behalf of Mountain Wireless, Inc. licensee of WFMX (FM) Skowhegan, Maine in support of a minor application to relocate its facilities using §73.215 .

Station WFMX operates on channel 300C3 with an effective radiated power (ERP) of 6.0 kilowatts and antenna height above average terrain (HAAT) of 203 meters. WFMX holds a construction permit to upgrade to channel 300C2 at the current location. This application is a minor change to the construction permit and proposes a new location under §73.215.

PROPOSED FACILITIES

Mountain Wireless, Inc. proposes to relocate the station to an existing tower site located at geographic coordinates of

North Latitude 44° 37' 01"

and

West Longitude 69° 37' 29"

Effective radiated power at the proposed new site is 25 kilowatts utilizing an antenna consisting of eight bays, with 80% wavelength spacing between bays. The antenna center of radiation will be 168 meters above sea level and 61 meters above ground level.

Figure 1 (below) is a map of the proposed operation, showing the predicted 70 dBu and 60 dBu contours for the licensed facility and the proposed facility.

Figure 1

PREDICTED COVERAGE CONTOURS

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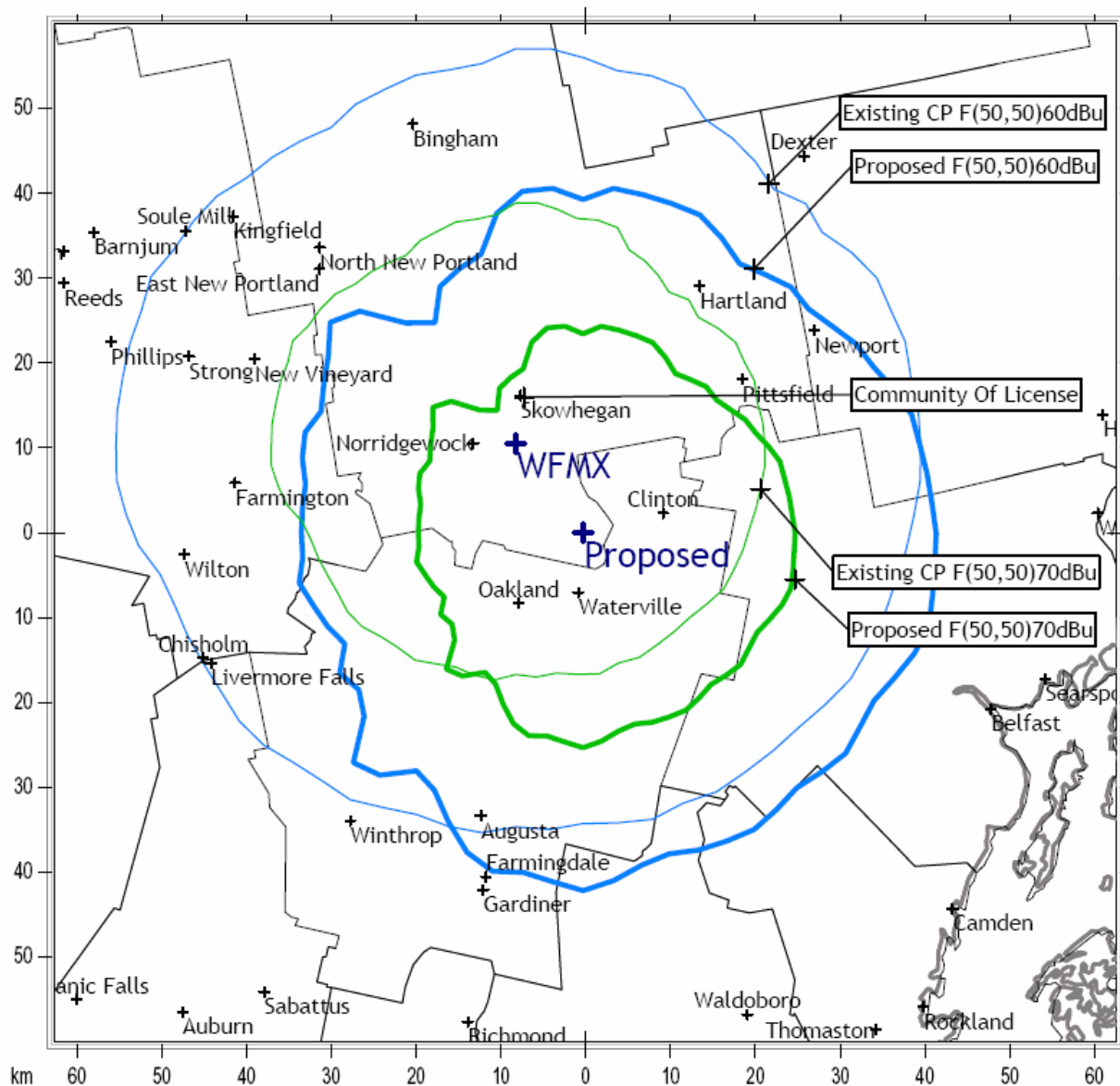


Figure 2

FM SEPARATION STUDY

WFMX Channel 300C2 CP (107.9 MHz)

Skowhegan, Maine

Facility ID 26388

25.0 kW ERP

103 M HAAT 44-37-01 69-37-29

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance	km Sep	Clr
900502MG	ME	BAR HARBOR	107.7	299	0	B1	USE	115.26	134	-18.7
WBQI	ME	BAR HARBOR	107.7	299	11500	B1	LIC	121.73	134	-12.3
WFNK	ME	LEWISTON	107.5	298	0	C1	USE	76.5	79	-2.5
WVPS	VT	BURLINGTON	107.9	300	48800	C	LIC	253.71	249	4.7
WVPS	VT	BURLINGTON	107.9	300	0	C	USE	253.62	249	4.6
WFNK	ME	LEWISTON	107.5	298	100000	C1	LIC	93.32	79	14.3
WBZN	ME	OLD TOWN	107.3	297	50000	C2	LIC	81.94	58	23.9
WWBX	ME	BANGOR	97.1	246	0	B	USE	44.29	20	24.3
WWBX	ME	BANGOR	97.1	246	6500	B	LIC	44.28	20	24.3
WBZN	ME	OLD TOWN	107.3	297	0	C2	USE	87.21	58	29.2
WXKS-FM	MA	MEDFORD	107.9	300	1000	B	LIC	278.4	241	37.4
WXKS-FM	MA	MEDFORD	107.9	300	20500	B	LIC	278.4	241	37.4
WXKS-FM	MA	MEDFORD	107.9	300	0	B	USE	278.39	241	37.4

ALLOCATION CONDITIONS

As can be seen in Figure 2 (above), the proposed site is short spaced to WBQI by 12.3 kilometers. The applicant proposes to use §73.215 contour protection. Figure 3 (below) demonstrates that the predicted interfering contours of the proposed station do not overlap the predicted protected contours of the short spaced facility. Figure 4 (below) demonstrates that the predicted interfering contours of the short spaced facility do not overlap the predicted protected contour of the proposed station.

Figure 3

CONTOUR PROTECTION STUDY

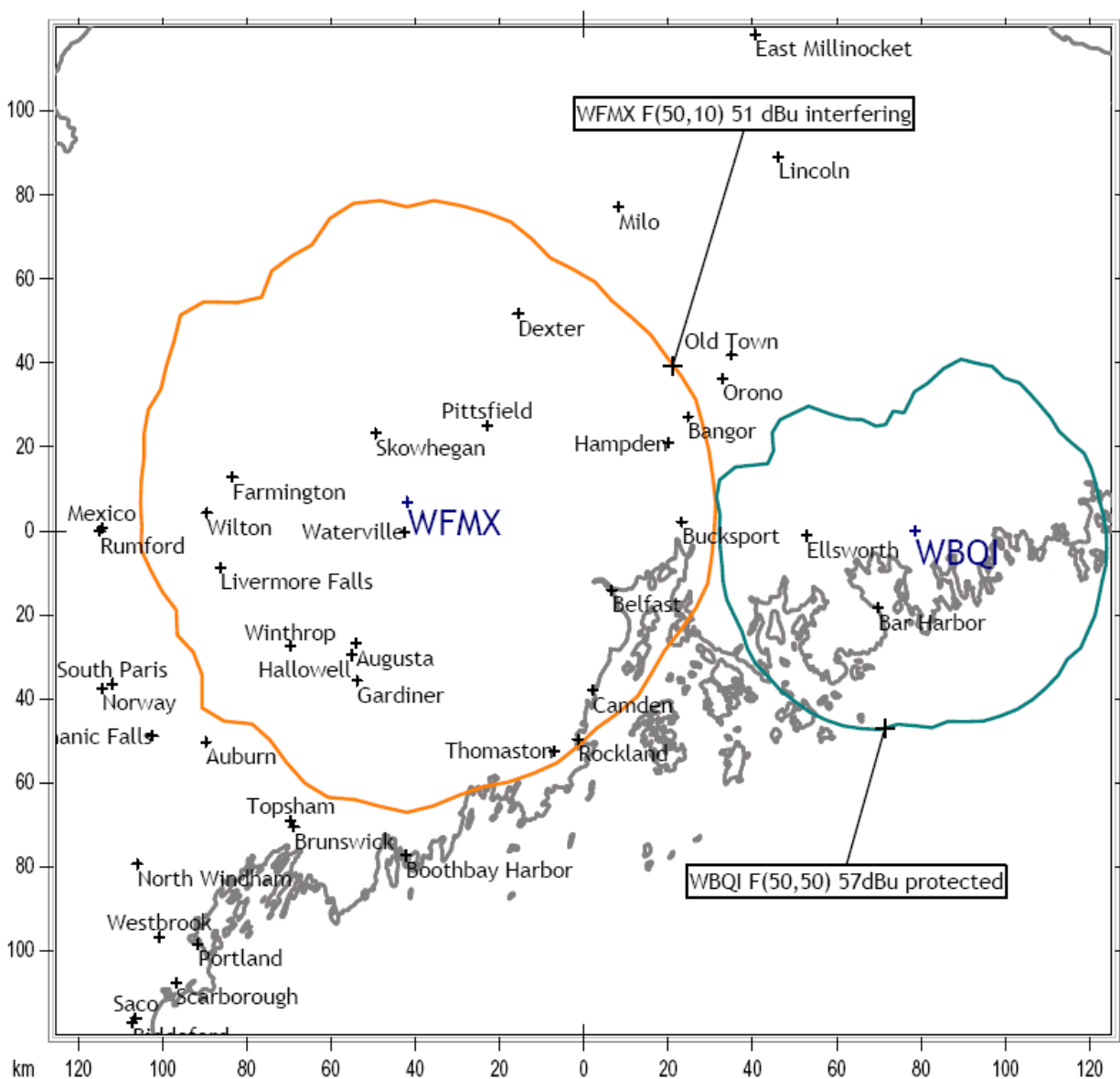
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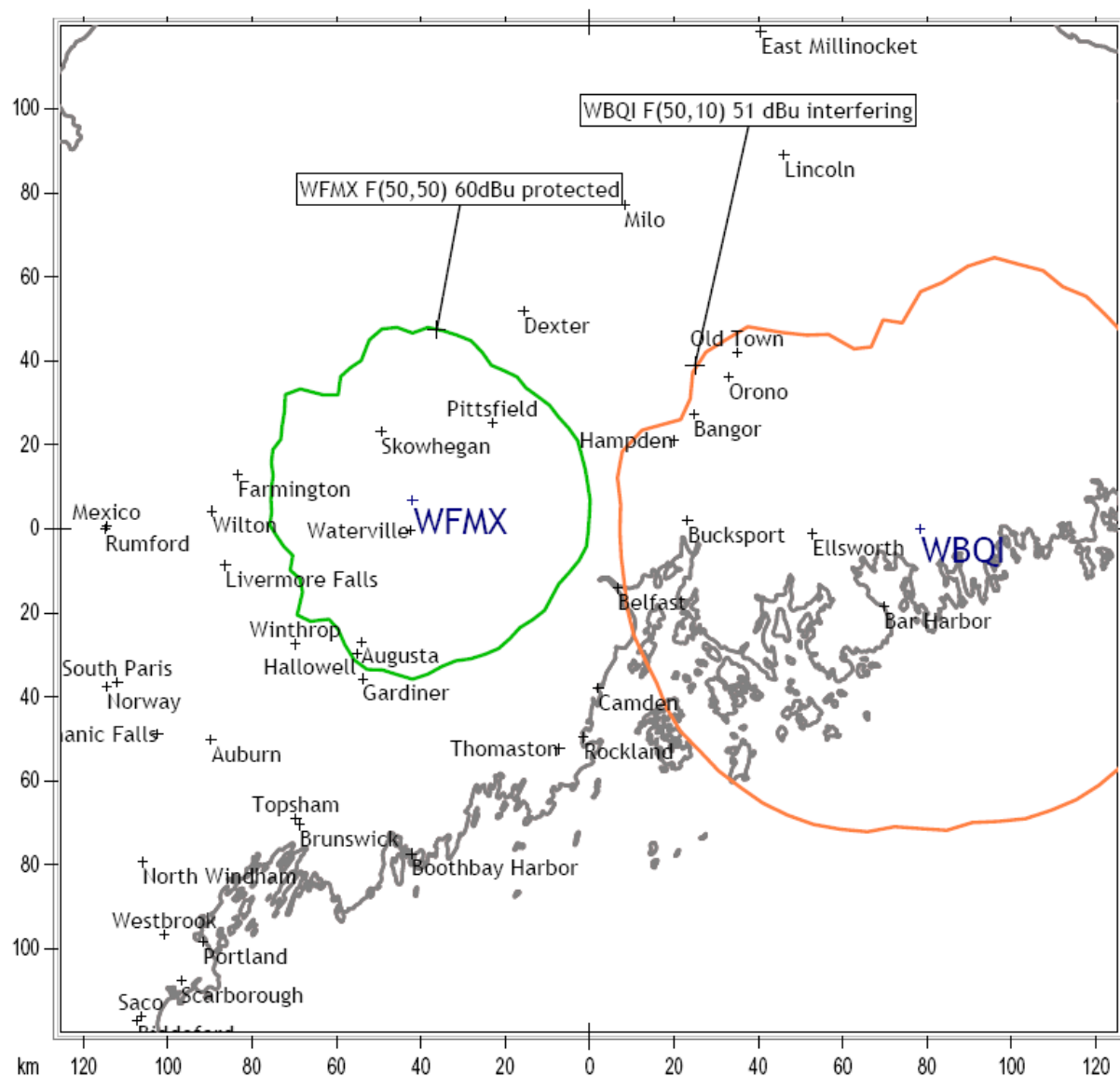
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RADIOFREQUENCY RADIATION STUDY AND STATEMENT

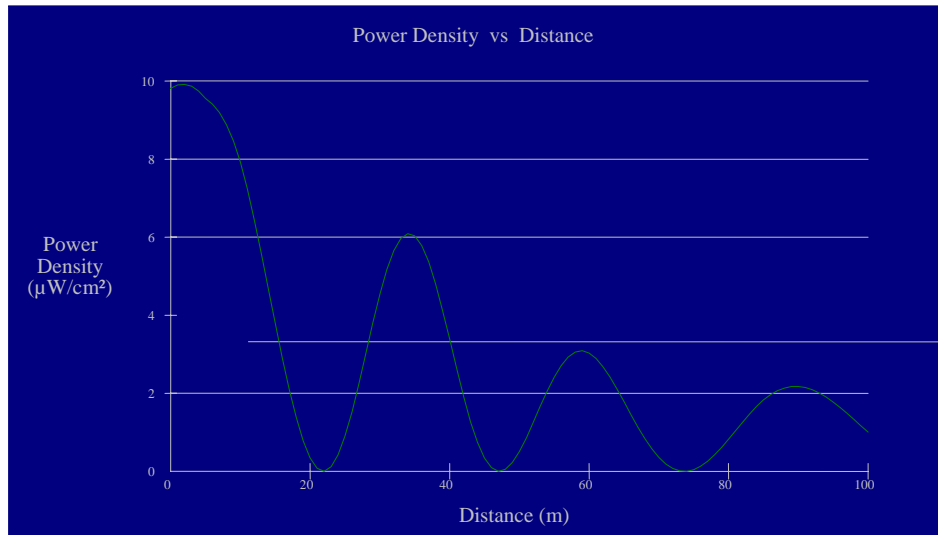
The proposed facilities were evaluated for potential radio frequency radiation exposure at ground level in accordance with OET bulletin No. 65, Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation.

The proposed antenna was modeled as an EPA type 1 dipole for worst case potential radio frequency radiation exposure at ground level, with center of radiation at 61 meters above ground level. This antenna is an 80 percent wave spaced 8 bay circularly polarized antenna operating with 25 kilowatts ERP in the horizontal plane and 25 kilowatts ERP in the vertical plane.

The proposed site has no other radio or TV facilities, so the FM Model for Windows program from the Office of Engineering and Technology was used to analyze power density vs. distance.

Figure 5 (below) documents the contribution of the proposed facility as regards compliance with FCC-specified guidelines for human exposure to radiofrequency radiation.

Radiofrequency Radiation at Proposed Site



The §1.1310 Controlled Environment Density Limit is $1,000 \mu\text{W}/\text{cm}^2$

The §1.1310 Uncontrolled Environmental Density Limit is $200 \mu\text{W}/\text{cm}^2$

This site contributes a total of $9.9 \mu\text{W}/\text{cm}^2$ - which is 0.99% of the Controlled Environmental Density Limit and 4.95% of the Uncontrolled Environmental Density Limit. Applicant will cooperate with other users of the tower site to reduce power or cease operation as necessary to limit human exposure to levels less than specified by the FCC.

This study has been prepared for the Applicant using FCC and other data sources that are considered to be current as of the date of this writing.

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my knowledge and belief.

A handwritten signature in black ink, appearing to read "ER Morgan". The signature is stylized with a large, looped "M" and a long horizontal stroke extending to the left.

Elliott R. Morgan
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October 5, 2007