

Technical Statement
in support of
University of Massachusetts
WFPB-FM Falmouth, MA
FCC Facility ID # 69057
Request for Program Test Authority
License to Cover Construction Permit BPED-20120713ABH

Introduction

The underlying Construction Permit ("CP") is one of a set of three coordinated CPs involving the following stations, all of which are owned by University of Massachusetts:

- WUMB-FM, FCC Facility ID # 66578 ("WUMB")
- WBPR (FM), FCC Facility ID # 63163 ("WBPR")
- WFPB-FM, FCC Facility ID # 69057 ("WFPB")

WUMB is relocating and making other changes to its facility.

WBPR and WFPB are co-channel with WUMB. In both cases, no physical changes are being made, only a reduction in Effective Radiated Power ("ERP") to eliminate overlap with the new WUMB facility.

Compliance with special conditions and restrictions

Calculations are provided in this statement showing that the installation complies with the power limitations contained in Special Condition 1.

A map is provided in this statement showing that 100% of the principal community will be contained within the 60 dBu f(50,50) contour using the manufacturer's measured composite relative field values. This satisfies Special Condition 2.

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Special Condition 1 – Directional Antenna Performance

As noted above, no physical changes were proposed, only a power reduction.

The measured Relative Field (“Erel”) values are shown in the following table, along with the power calculation for each radial based on a maximum ERP of 5.2 kW:

Azimuth	Erel	ERP	Azimuth	Erel	ERP
0	0.230	0.28	180	0.915	4.35
10	0.220	0.25	190	0.910	4.31
20	0.220	0.25	200	0.915	4.35
30	0.225	0.26	210	0.920	4.40
40	0.240	0.30	220	0.935	4.55
50	0.280	0.41	230	0.965	4.84
60	0.350	0.64	240	1.000	5.20
70	0.460	1.10	250	1.000	5.20
80	0.590	1.81	260	1.000	5.20
90	0.720	2.70	270	1.000	5.20
100	0.815	3.45	280	0.940	4.59
110	0.900	4.21	290	0.860	3.85
120	0.960	4.79	300	0.780	3.16
130	0.985	5.05	310	0.685	2.44
140	1.000	5.20	320	0.600	1.87
150	1.000	5.20	330	0.480	1.20
160	0.975	4.94	340	0.360	0.67
170	0.940	4.59	350	0.280	0.41

Special Condition 6 requires a maximum ERP of 1.2 kW in the range of 0 to 50 degrees. The maximum ERP in this region is 0.41 kW at 50 degrees. The installation therefore complies with the requirement.

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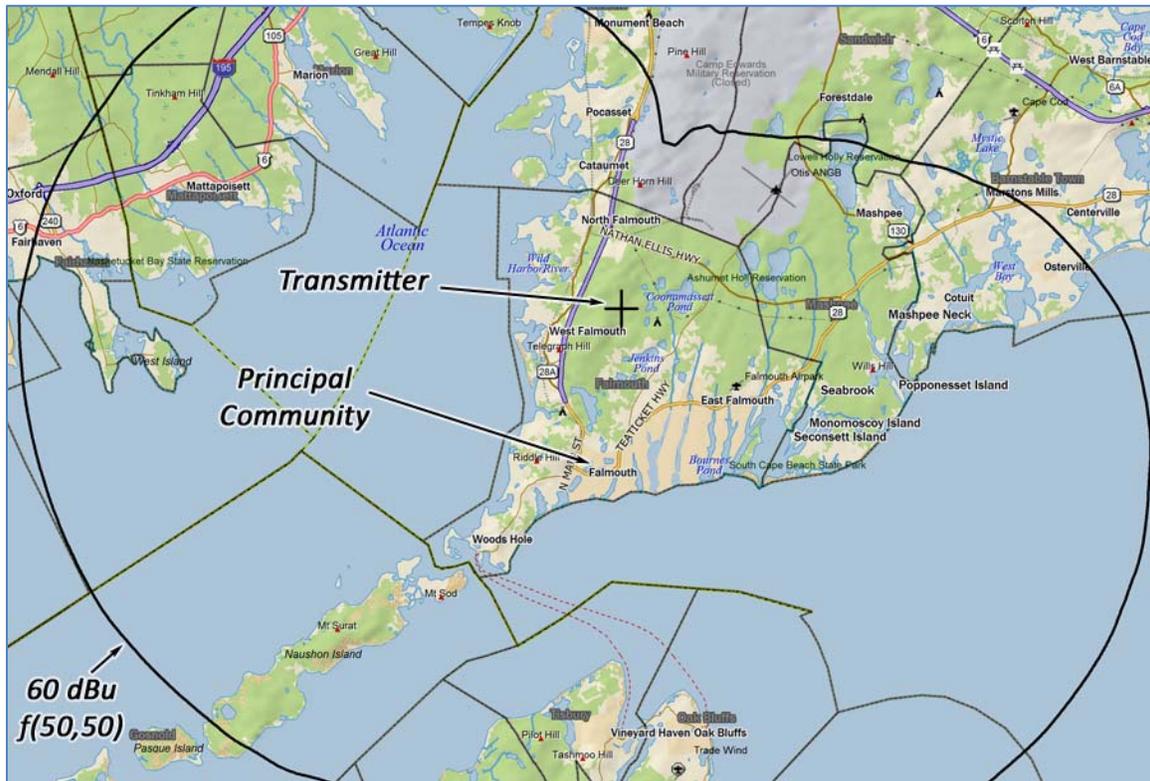
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Special Condition 2 – Coverage of Principal Community

The entire principal community of Falmouth falls within the 60 dBu f(50,50) contour:



The contour was drawn using the manufacturer's measured pattern, as required by Special Condition 2 of the CP.

The installation therefore complies with the requirements of §73.515 regarding service to the principal community.

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