Comprehensive Technical Statement

in support of

University of Massachusetts

Application for Minor Change

WFPB-FM, Facility ID # 69057

Channel 220A, 91.9 MHz

Falmouth, MA

Coordinated Application

WUMB-FM, Facility ID # 66578, Boston, MA

Introduction

University of Massachusetts ("UMass") proposes to modify its WFPB-FM, Falmouth, MA, by reducing its effective radiated power from 6.0 kW to 5.2 kW vertical and from 300 W to 260 W horizontal. No other changes are proposed.

This application is being filed in coordination with an application for WUMB-FM, Boston, MA. WUMB-FM is forced to relocate from its current location, and this application is being filed to eliminate a small amount of prohibited overlap with the new facility.

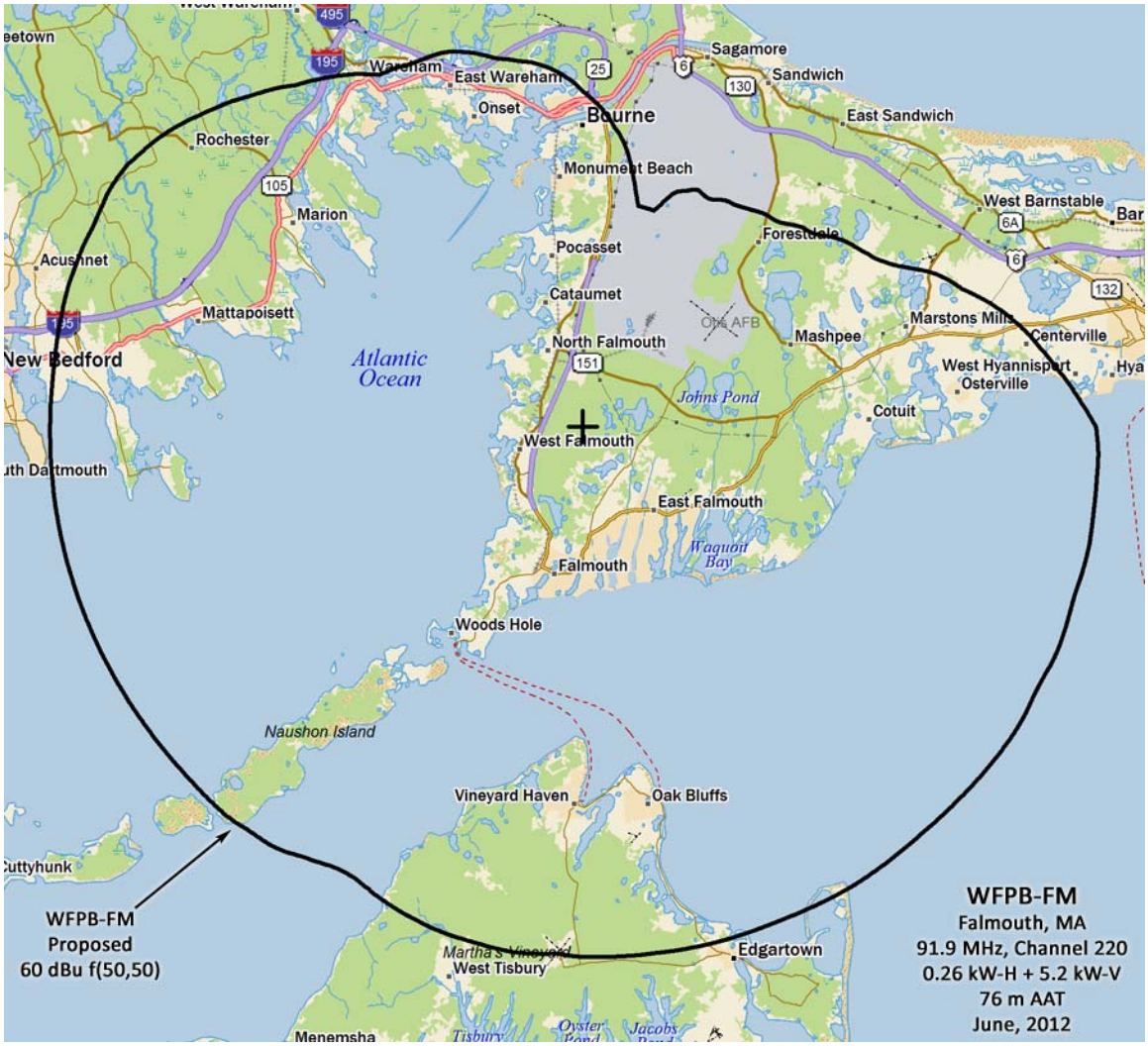
Interference

No relocation is proposed, only a reduction in ERP. It is self-evident that the proposed coverage and interfering contours fall wholly within the current contours, and that there is no potential for new interference.

International

The distance to the nearest point along the US/Canada border is 385 km, and the nearest point on the Mexican border is 2,985 km distant. International coordination and notification are not required.

Coverage



Total area: 1,527 km²
Land area: 1,036 km²
Population (2010 Census): 131,355

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Community Coverage

The principal community of Falmouth, MA, falls entirely within the proposed 60 dBu f(50,50) contour.

Main Studio Location

UMass was granted a waiver of Section 73.1125 under license BLED-20050913ABW to operate as a satellite station of WUMB-FM. Continuation of that waiver is requested.

Environmental / RF Exposure

No construction is proposed, only an adjustment to the transmitter power output.

The antenna is a Shively 6513, with three bays spaced at one-half wavelength, mounted at 56.5 m above the ground. For this antenna with 260 W-H and 5200 W-V, FMMODEL returns an exposure of 2.4 µW/cm², which is 1.2% of the limit for causal / uncontrolled exposure.

The tower is fenced and appropriate signage is provided. The applicant agrees to reduce power or shut down temporarily to protect workers on the tower.

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