

## **Proposed Minor Change to W257EH at Webster, MA**

### **Facility ID 201540**

### **Technical Statement**

#### **Overview**

This application proposes a minor change to W257EH (License File No. 0000142002.) Authorized and proposed 60 dBu service contours (green) overlap, and the service contour remains within 25 miles of primary station WGFP(AM) (grey circle.)

#### **74.1204 Study**

The following facilities were studied

Call Sign	C	ST	City	Freq. ▼	ERP	Class	Status	D
WORC-FM	3	MA	WEBSTER	98.9	1870.0	A	LIC	0.16
WPLM-FM	1	MA	PLYMOUTH	99.1	50000.0	B	LIC	106.98
W257EH	1	MA	WEBSTER	99.3	10.0	D	LIC	13.04
Proposed	6	MA	WEBSTER	99.3	250.0	D	APP	0.00
WLZX-FM	2	MA	NORTHAMPTON	99.3	5800.0	A	LIC	67.76
W258DU	1	RI	WOONSOCKET	99.5	150.0	D	LIC	40.31
WCRB	1	MA	LOWELL	99.5	27000.0	B	LIC	93.42
WGFP(AM)	2	MA	WEBSTER	940	1000.0	D	LIC	13.04

Figures 1 and 2 illustrate the absence of prohibited overlap between the proposed translator interfering contours and the pertinent service of each of these facilities, except for second adjacent WORC-FM. (Key: same colors may not overlap.)

WORC-FM is located 160 meters from the proposed antenna site and places a 126 dBu service contour over the proposed site. The Commission has generally considered overlap from a proposed translator interfering contour to be acceptable where the ratio of undesired to desired signal (U/D) does not exceed 40 dB i.e. where in this case the proposed translator F(50,10) interfering signal does not exceed 166 dBu. This contour will not reach the ground.

The applicant therefore believes its application meets the requirements of Section 74.1204(d) with respect to “other factors” insuring no actual interference to WORC-FM. Should actual interference occur, the applicant will take the required steps to eliminate it.

### **Environmental Considerations**

No physical changes are proposed. RFR compliance was determined through the use of the RF worksheets in Appendix A. The applicant will cease operation or reduce power as necessary, in order to prevent uncontrolled or controlled exposure in excess of the guidelines of OET-65.

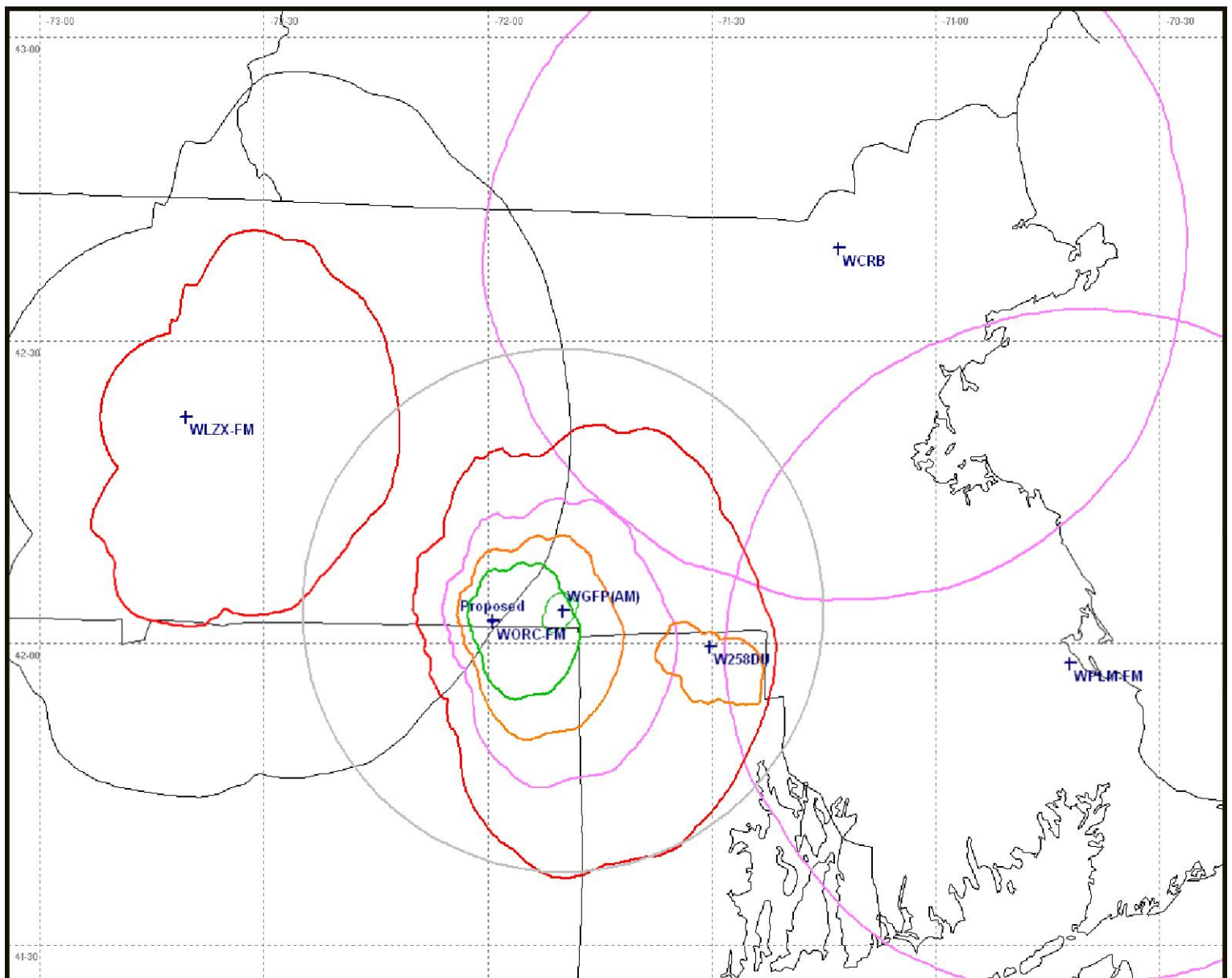
Respectfully submitted,

A handwritten signature in black ink, appearing to read 'D. Jackson', with a stylized flourish at the end.

Dennis Jackson  
Technical Consultant  
May 18, 2021

**Figure 1**  
**74.1204 Study and Fill-In Status**

**No prohibited overlap is created. (Key: Same colors may not overlap.)**  
**Proposed service contour (green) does not exceed 25 miles (gray circle) from**  
**Primary AM site and overlaps authorized service contour**  
**(License File No. 0000142002 - thin green.)**



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**Figure 2**

**74.1204 Study – Protection to WCRB**

**No prohibited overlap is created. (Key: Same colors may not overlap.)**

**Proposed service contour (green) overlaps authorized service contour**

**(License File No. 0000142002 - thin green.)**

