



**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION CONSTRUCTION PERMIT**

Authorizing Official:

Official Mailing Address:

L&J Media, LLC  
40 Winslow Road  
Duxbury MA 02332

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Facility Id: 12789

Call Sign: WMEX

Permit File Number: BP-20220810AAJ

Grant Date: January 04, 2023

This permit expires 3:00 a.m.  
local time, 36 months after the  
grant date specified above.

Change antenna system.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Hours of Operation: Daytime with Secondary nighttime

Average hours of sunrise and sunset:  
Local Standard Time (Non-Advanced)

Jan.	7:15 AM	4:30 PM	Jul.	4:15 AM	7:15 PM
Feb.	6:45 AM	5:15 PM	Aug.	4:45 AM	6:45 PM
Mar.	6:00 AM	5:45 PM	Sep.	5:30 AM	6:00 PM
Apr.	5:00 AM	6:30 PM	Oct.	6:00 AM	5:00 PM
May	4:30 AM	7:00 PM	Nov.	6:30 AM	4:30 PM
Jun.	4:00 AM	7:15 PM	Dec.	7:00 AM	4:15 PM

Callsign: WMEX

Permit No.: BP-20220810AAJ

Name of Permittee: L&J Media, LLC

Station Location: QUINCY, MA

Frequency (kHz): 1510

Station Class: D

Antenna Coordinates:

Day

Latitude: N 42 Deg 16 Min 25 Sec

Longitude: W 71 Deg 02 Min 30 Sec

Night

Latitude: N 42 Deg 16 Min 25 Sec

Longitude: W 71 Deg 02 Min 30 Sec

Critical

Latitude: N 42 Deg 16 Min 25 Sec

Longitude: W 71 Deg 02 Min 30 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 10.0 Night: 0.100 Critical: 10.0

Antenna Mode: Day: ND Night: ND Critical: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1012656	

Night:

Tower No.	ASRN	Overall Height (m)
1	1012656	

Critical:

Tower No.	ASRN	Overall Height (m)
1	1012656	
2	1012655	

## DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Critical: 1059  
 Standard RMS (mV/m/km): Critical: 1113  
 Augmented RMS (mV/m/km):  
 Q Factor: Critical:

Theoretical Parameters:

Critical Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.6500	216.000	143.8000	357.500	0	110.5
2	1.0000	0.000	0.0000	0.000	0	110.5

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Non-Directional Antenna: Day

Radiator Height: 61 meters; 110.5 deg

Theoretical Efficiency: 319 mV/m/kw at 1km

Non-Directional Antenna: Night

Radiator Height: 61 meters; 110.5 deg

Theoretical Efficiency: 319 mV/m/kw at 1km

Inverse Distance Field Strength:

The inverse distance field strength at a distance of one kilometer from the above antenna in the directions specified shall not exceed the following values:

Critical:

Azimuth:	Radiation:
102	304.8 mV/m
253	304.8 mV/m

Special operating conditions or restrictions:

- 1 Ground system consists of 120 #20 AWG copper radials 59.5 meters in length, spaced at three degree intervals and buried to a depth of 4-6 inches. In addition, 120 radials with a length of 50 feet, are interspersed between the long radials. Intersecting radials are bonded to transverse copper straps.

## Special operating conditions or restrictions:

- 2 Before program tests are authorized, sufficient data shall be submitted to show that adequate filters, traps and other equipment has been installed and adjusted to prevent interaction, intermodulation and/or generation of spurious radiation products which may be caused by common usage of the same antenna system by Stations WMEX (AM) Quincy, MA, 12789 and WBIX (AM), Boston, MA, 48403, and there shall be filed with the license application copies of a firm agreement entered into by the two stations involved clearly fixing the responsibility of each with regard to the installation and maintenance of such equipment . In addition, field observations shall be made to determine whether spurious emissions exist and any objectionable problems resulting therefrom shall be eliminated. Following construction, and prior to authorization of program test under this grant, Stations WMEX (AM), Quincy, MA, 12789 and WBIX (AM), Boston, MA, 48403, shall each measure antenna or common point resistance and submit FCC Form 302 as application notifying the return to direct measurement of power.
- 3 The permittee must submit a proof of performance as set forth in either Section 73.151(a) or 73.151(c) of the rules on the new portion of the antenna system before program tests are authorized. The proof of performance submitted to the Commission must contain all of the data specified in Section 73.186 of the rules. Permittees who elect to submit a moment method proof of performance, as set forth in Section 73.151(c), must use series-fed radiators. In addition, the sampling system must be constructed as described in Section 73.151(c) (2) (i).
- 4 Licensee shall be responsible for satisfying all reasonable complaints of blanketing interference within the 1 V/m contour as required by Section 73.88 of the Commission's rules.
- 5 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

\*\*\* END OF AUTHORIZATION \*\*\*