



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

Authorizing Official:

Official Mailing Address:

---

DELTA COMMUNICATIONS, LLC  
 10 ELAINE COURT  
 SCITUATE MA 02066

---



---

Son Nguyen  
 Supervisory Engineer  
 Audio Division  
 Media Bureau

---

Grant Date: January 31, 2018

Facility Id: 48781

Call Sign: WNTN

Permit File Number: BMP-20171017AAD

The authority granted herein has no effect on the expiration date of the underlying construction permit.

This supersedes authorization of same date to correct the station location. (HKC 05/03/2018)

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	7:30 PM	Dec	7:00 AM	4:15 PM

Name of Permittee: DELTA COMMUNICATIONS, LLC

Station Location: Cambridge, MA

Frequency (kHz): 1550

Station Class: D

Antenna Coordinates:

Day

Latitude: N 42 Deg 23 Min 13 Sec
Longitude: W 71 Deg 08 Min 21 Sec

Night

Latitude: N 42 Deg 23 Min 13 Sec
Longitude: W 71 Deg 08 Min 21 Sec

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

Nominal Power (kW): Day: 6.7 Night: 0.003

Antenna Mode: Day: ND Night: ND

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

Antenna Registration Number(s):

Day:

Tower No. ASRN Overall Height (m)
1 1009551

Night:

Tower No. ASRN Overall Height (m)
1 1009551

Non-Directional Antenna: Day

Radiator Height: 85.3 meters; 158.8 deg
Theoretical Efficiency: 356.4 mV/m/kw at 1km

Non-Directional Antenna: Night

Radiator Height: 85.3 meters; 158.8 deg
Theoretical Efficiency: 356.4 mV/m/kw at 1km

## Special operating conditions or restrictions:

- 1 Permittee shall install a type accepted transmitter, or submit application (FCC Form 301) along with data prescribed in Section 73.1660(b) should non-type accepted transmitter be proposed.
- 2 A license application (FCC Form 302) to cover this construction permit must be filed with the Commission pursuant to Section 73.3536 of the Rules before the permit expires.
- 3 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.
- 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 Ground system consists of 120 equally spaced, buried, copper radials maximum length of the radials is 97.5 meter (0.504 wavelengths at 1550 kHz).

## Special operating conditions or restrictions:

- 6 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 WNTN, Cambridge, MA, ID 48781 and WJIB, Cambridge, MA, ID 6146, and there shall be filed with the license application copies of a firm agreement entered into by the two (2)

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 WNTN, Cambridge, MA, ID 48781 and WJIB, Cambridge, MA, ID 6146, shall each measure antenna or common point resistance and submit FCC Form 302 as application notifying the return to direct measurement of power.

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