



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

THE ZONE CORPORATION
P.O. BOX 1929
BANGOR ME 04402

Son Nguyen
Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Grant Date: **OCT 20 2017**

This license expires 3:00 a.m.
local time, April 01, 2022.

Facility Id: 66674

Call Sign: WZON

License File Number: BZ-20160209ABZ

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Hours of Operation: Unlimited

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

Jan.	7:15 AM	4:15 PM	Jul.	4:00 AM	7:15 PM
Feb.	6:30 AM	5:00 PM	Aug.	4:30 AM	6:45 PM
Mar.	5:45 AM	5:45 PM	Sep.	5:15 AM	5:45 PM
Apr.	4:45 AM	6:15 PM	Oct.	5:45 AM	4:45 PM
May	4:15 AM	7:00 PM	Nov.	6:30 AM	4:15 PM
Jun.	3:45 AM	7:30 PM	Dec.	7:00 AM	4:00 PM

Callsign: WZON

License No.: BZ-20160209ABZ

Name of Licensee: THE ZONE CORPORATION

Station Location: BANGOR, ME

Frequency (kHz): 620

Station Class: B

Antenna Coordinates:

Day

Latitude: N 44 Deg 49 Min 44 Sec

Longitude: W 68 Deg 47 Min 08 Sec

Night

Latitude: N 44 Deg 49 Min 44 Sec

Longitude: W 68 Deg 47 Min 08 Sec

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

Nominal Power (kW): Day: 5.0 Night: 5.0

Antenna Input Power (kW): Day: 5.0 Night: 5.4

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 12.2 Night: 10.4

Resistance (ohms): Day: 33.6 Night: 50

Non-Directional Antenna: Day

Radiator Height: meters; 90.8 deg

Theoretical Efficiency: 307.38 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1248207	

Night:

Tower No.	ASRN	Overall Height (m)
1	1302952	
2	1248207	

Callsign: WZON

License No.: BZ-20160209ABZ

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 643.74

Standard RMS (mV/m/km): Night: 676.51

Augmented RMS (mV/m/km):

Q Factor: Night: 26.81

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	2.7000	154.500	0.0000	0.000	0	45.4
2	3.7000	0.000	60.0000	10.000	0	90.8

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
----------	--------------	--------------------------------------

1	0	1
---	---	---

2	-148.8	0.49
---	--------	------

Antenna Monitor: POTOMAC INSTRUMENTS AM-19D(204

Monitoring Points:

Night Operation:

Radial (Deg. T)	Distance From Transmitter (km)	Maximum Field Strength (mV/m)
-----------------	--------------------------------	-------------------------------

218	1.87	160
-----	------	-----

237.5	1.9	115
-------	-----	-----

253.5	2.12	89
-------	------	----

269	4.19	40
-----	------	----

Special operating conditions or restrictions:

- 1 Ground system consists of: North Tower 200-215 feet to 540' buried, copper radials plus a 30' x 30' ground screen. South Tower 120 buried radials 135' to 470' in length, plus a 24' x 24' ground screen. Radials which overlap are bonded to a transverse copper strap.
- 2 The permittee/licensee 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.
- 3 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.
- 4 Ground system consists of: North Tower 200-215 feet to 540' buried, copper radials plus a 30' x 30' ground screen. South Tower 120 buried radials 135' to 470' in length, plus a 24' x 24' ground screen. Radials which overlap are bonded to a transverse copper strap.

5 DESCRIPTION TO MONITORING POINTS:

Direction of 218° True North: From the transmitter site drive northwesterly on Broadway 0.6 mile to Strickland Road. Proceed southwestward (left) on Strickland Road 1.15 miles to Ohio Street. Proceed southeastward (left) on Ohio Street 0.6 mile. The monitor point is approximately 30 feet off the east edge of Ohio Street. A large white wood frame house is located to the north and a large yellow wood frame house is located to the south of the monitor point. The monitor point is approximately 70 feet south of the southwest corner of the white wood frame house. This is point number 5 at a distance of 1.16 miles from the transmitter. The field intensity measured at this point should not exceed 160 mV/m.

Direction of 237.5° True North: From the transmitter site drive northwesterly on Broadway 0.6 mile to Strickland Road. Proceed southwest (left) on Strickland Road 1.15 miles to Ohio Street. Proceed southeastward (left) on Ohio Street 0.4 mile. The monitor point is off the east side of Ohio Street on a dirt path leading to the ruins of a barn. The monitor point is approximately 50 feet east of Ohio Street on the dirt path. This is point number 3 at a distance of 1.18 miles from the transmitter. The field intensity measured at this point should not exceed 115 mV/m.

Special operating conditions or restrictions:

- 6 Direction of 253.5° True North From the transmitter site drive northwesterly on Broadway 0.6 mile to Strickland Road. Turn southwestward (left) on Strickland Road 1.15 miles to Ohio Street. Proceed southeastward (right) on Ohio Street and proceed 0.1 mile to house number 1069. The monitor point is on the north property line, approximately 20 feet off Ohio Street. This is point number 4 at a distance of 1.32 miles from the transmitter. The field intensity measured at this point should not exceed 89 mV/m.

Direction of 269° True North From the transmitter site drive northwesterly on Broadway 0.6 mile to Strickland Road. Proceed 1.75 miles on Strickland Road to Union Street. Turn northwestward (right) on Union Street and proceed 1.3 miles to house number 1763. The monitor point is along the property edge on the south side of the house and in line with the rear of the main portion of the house. This point number 5 at a distance of 2.60 miles from the transmitter. The field intensity measured at this point should not exceed 40 mV/m.

*** END OF AUTHORIZATION ***