



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

Authorizing Official:

Official Mailing Address:

BRISTOL COUNTY BROADCASTING, INC.
 456 ROCK STREET
 FALL RIVER MA 02722

Son Nguyen
 Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Facility Id: 6879

Call Sign: WSAR

Permit File Number: BP-20180124AAD

Grant Date: **MAY 18 2018**
 This permit expires 3:00 a.m.
 local time, 36 months after the
 grant date specified above.

This Permit Modifies Permit No.: BZ-20121217ADN

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: Unlimited

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

Jan.	7:15 AM	4:45 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.	4:15 AM	7:15 PM	Dec.	7:00 AM	4:15 PM

Callsign: WSAR

Permit No.: BP-20180124AAD

Name of Permittee: BRISTOL COUNTY BROADCASTING, INC.

Station Location: FALL RIVER, MA

Frequency (kHz): 1480

Station Class: B

Antenna Coordinates:

Day

Latitude: N 41 Deg 43 Min 26 Sec

Longitude: W 71 Deg 11 Min 21 Sec

Night

Latitude: N 41 Deg 43 Min 26 Sec

Longitude: W 71 Deg 11 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: 25.0 Night: 5.0

Antenna Mode: Day: DA Night: DA

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

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1006645	
2	1006646	
3	1279762	

Night:

Tower No.	ASRN	Overall Height (m)
1	1006645	
2	1006646	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 1896 Night: 902.8
 Standard RMS (mV/m/km): Day: 1992
 Augmented RMS (mV/m/km): Night: 948.6
 Q Factor: Day: Night:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.7570	126.300	120.0000	247.000	0	215.0
2	1.0000	0.000	0.0000	0.000	0	215.0
3	0.8730	229.400	103.9000	85.900	0	106.2

* Tower Reference Switch

- 0 = Spacing and orientation from reference tower
- 1 = Spacing and orientation from previous tower

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	215.0
2	1.0000	71.300	120.0000	247.000	0	215.0

* Tower Reference Switch

- 0 = Spacing and orientation from reference tower
- 1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	217.0	10.0	70.80
2	228.0	32.0	96.60
3	247.0	28.0	141.60
4	272.0	30.0	83.70

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:

Day:

Azimuth:	Radiation:	
164.5	531.62	mV/m
239.5	152.77	mV/m
273.5	151.38	mV/m
347.5	374.32	mV/m

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 existing ground system for the two towers that comprise the WSAR array consists of 120 equally spaced, buried, copper radials extending for a distance of 80.8 meters from the tower base, except where intersecting radials are shortened and bonded to a transverse copper strap midway between the towers of the array. In addition, a 14.6 meter square copper ground screen is installed at the base of each tower. All connections are brazed or silver soldered. The ground system for the proposed third tower will consist of 120 equally spaced copper wire radials, extending for a distance of 50.7 meters from the tower base, except where intersecting radials are shortened and bonded to a transverse copper strap midway between the existing ground system. All connections will be brazed or silver soldered.

- 4 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.

Special operating conditions or restrictions:

- 5 The permittee must submit a proof of performance as set forth in either Section 73.151(a) or 73.151(c) of the rules before program tests are authorized.

A proof of performance based on field strength measurements, per Section 73.151(a), shall include a complete nondirectional proof of performance, in addition to a complete proof on the day directional antenna system. The nondirectional and directional field strength measurements must be made under similar environmental conditions. The proof(s) 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).

*** END OF AUTHORIZATION ***