

FCC 352  
May 1984

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION

File No.: BL-840420AE

Call Sign: WSAR

STANDARD BROADCAST STATION LICENSE

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, <sup>1/</sup>the LICENSEE

*BRISTOL COUNTY BROADCASTING*  
~~QUALITY RADIO CORP.~~

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time

The licensee shall use and operate said apparatus only in accordance with the following terms:

1. On a frequency of 1480 kHz.
2. With nominal power of 5000 watts nighttime and 5000 watts daytime,  

with antenna input power of 5400 watts directional	Common point	current	10.4 amperes
antenna nighttime .....	Common point	resistance	50 ohms,
and antenna input power of 5400 watts directional	Common point	current	10.4 amperes
antenna daytime .....	Common point	resistance	50 ohms
3. Hours of operation: UNLIMITED

AVERAGE HOURS OF SUNRISE AND SUNSET PROVIDED WITH PREVIOUS AUTHORIZATION

4. Station location: Fall River, Massachusetts
5. Main studio location: Kenneth Ave. & Home Street, Somerset, Massachusetts  
(Listed only if not at transmitter site or not within boundaries of principal community)
6. Remote control point: -----
7. Transmitter location: Kenneth Ave. & Home Street, Somerset, Massachusetts  

North Latitude:	41°	43'	26"
West Longitude:	71°	11'	21"
8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: None required
9. Transmitter(s): Typed Accepted
10. Conditions: -----

The Commission reserves the right during said license period of terminating this license or making effective any changes or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

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 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.

1/ This license consists of this page and pages 2 & 3

Dated: JUL 26 1984 ajs

FEDERAL COMMUNICATIONS COMMISSION



JUL 27 1984  
*ajs*

Callsign: WSAR

License No.: BZ-20121217ADN

Name of Licensee: 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: 5.0 Night: 5.0

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

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 10.39 Night: 10.39

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

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

Night:

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

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DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 902.8 Night: 902.8

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 948.64 Night: 948.64

Q Factor: Day: 22.36 Night: 22.36

Theoretical Parameters:

Day 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	221.0	18.0	78.90
3	228.0	32.0	96.60
4	247.0	28.0	141.60
5	272.0	30.0	83.70

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	221.0	18.0	78.90
3	228.0	32.0	96.60
4	247.0	28.0	141.60

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Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
5	272.0	30.0	83.70

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	79	0.87

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	79	0.87

Antenna Monitor: POTOMAC INSTRUMENTS AM-19(204)

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
220	8.73	4.13
247	7.05	9.8
272	5.51	6.82

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
220	8.73	4.13
247	7.05	9.8
272	5.51	6.82

Special operating conditions or restrictions:

- 1 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:

- 2 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.

- 3 DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Two (2) vertical, guyed, series excited, steel radiators of uniform cross section. Two (2) communications antennas are side mounted on NE (#1) tower

Ground System consists of 120-265' copper radials plus a 48 foot square ground screen about the base of each tower. Radials are shortened and bonded to copper strap midway between elements.

- 4 DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

Direction of 222° True North: From WSAR transmitter, proceed to end of Home Street, 0.1 mile and turn left on Route 103, traveling west. Go 4.45 miles to intersection of Metacom Avenue, at red light. Turn right onto Metacom Avenue, heading north for 0.1 mile, around sweeping corner, west, for 0.05 mile, joining Arlington Street. Go south for 0.4 mile on Arlington Street to junction of Metacom Avenue. Joining Metacom Avenue, still heading south, proceed for 4.15 mile to intersection of Woodlawn Avenue. Turn right on Woodlawn Avenue, proceed west for 0.05 mile. The 222 degree monitor point is on the south side of Woodlawn Avenue at the entrance to the cemetery. This monitor point is 5.42 miles from transmitter. The field intensity measured at this point should not exceed 4.13 mV/m.

Direction of 247° True North: From WSAR transmitter, proceed to end of Home Street, 0.1 mile and turn left on Route 103, traveling west. Go 4.45 miles to intersection of Metacom Avenue, at red light. Turn right onto Metacom Avenue, heading north for 0.1 mile, around sweeping corner, west, for 0.05 mile, joining Arlington Street. Go south for 0.4 mile on Arlington Street to junction of Metacom Avenue. Joining Metacom Avenue, still heading south, proceed for 1.8 miles to intersection of Kickemuit Avenue. Turn left on Kickemuit Avenue, traveling east for 20 feet; turn left again onto dirt lot on north side of Kickemuit Avenue. Go 50 feet north. The 247 degree monitor point is on right or east side of dirt lot, at big tree. This is 4.38 miles from transmitter. The field intensity measured at this point should not exceed 9.8 mV/m.

Direction of 272° True North: From WSAR transmitter, proceed to end of Home Street, 0.1 mile and turn left on Route 103, traveling west. Go 3.8 miles to intersection of Huge Cole Road. Turn left onto Hugh Cole Road. Proceed south for 0.35 mile. The 272 degree monitor point is on the east side of Hugh Cole Road, between pole 16 and pole 17, at stone wall. This point is 3.42 miles from transmitter. The field intensity at this point should not exceed 6.82 mV/m.

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

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Date:

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA-1

**No. and Type of Elements:** Two(2) guyed, series excited, steel radiators of uniform cross section. Theoretical RMS day and night 902.8 mV/m/km  
STD RMS day and night 948.2 mV/m/km. Two (2) communications antennas are sidemounted on NE(#1) tower.  
**Height above Insulators:** 397' (215°)

**Overall Height:** 404'

**Spacing and Orientation:** Towers are spaced 120° apart on a line bearing 247° True.

**Non-Directional Antenna:** None used

**Ground System consists of** 120-265' copper radials plus a 48 foot square ground screen about base of each tower. Radials are shortened and bonded to copper strap midway between elements.

2. THEORETICAL SPECIFICATIONS

<b>Phasing:</b>	Tower NE(#1)	SW(#2)
	Night 0	71.3

<b>Field Ratio:</b>	Night 1.0	1.0
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3. OPERATING SPECIFICATIONS

<b>Phase Indication*:</b>	Night 0°	81°
	& Day	

<b>Antenna Base Current Ratio:</b>	Night 1.00	0.792
	& Day	

<b>Antenna Monitor Sample Current Ratio:</b>	Night 1.00	1.01
	& Day	

\* As indicated by

Potomac Instruments AM-19(204) antenna

EXEMPTIONS AS LISTED IN SECTION 73.68(b) OF THE RULES WILL APPLY DURING PROPER OPERATION OF APPROVED SAMPLING SYSTEM.