

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
AM BROADCAST STATION LICENSE

File No. : BZ-900308AA  
FAC ID : 54779  
Call Sign : ~~WGAM~~ W1ZZ

LICENSEE:

Howard Communications Corporation

1. Community of License .....: Greenfield, MA.  
2. Transmitter location .....: 346 Chapman Street,  
Greenfield, MA

North latitude .....: 42 ° 36 ' 12 "  
West longitude .....: 72 ° 36 ' 21 "

3. Transmitter(s): Type Accepted. (See Sections 73.1660,  
73.1665 and 73.1670 of the Commission's rules)  
4. Main Studio location: (See Section 73.1125)  
158 Main Street  
Greenfield, MA  
5. Remote control location:  
158 Main Street  
Greenfield, MA

6. Antenna and ground system: Attached

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: None Required

8. Frequency .....: 1520 kHz

9. Nominal power (kW) .....: 10.0 Day - - - Night

Antenna input power (kW):

10.53 Day  Non-directional antenna:  
 Directional antenna : current 14.5 amperes; resistance 50 ohms.  
- - - Night  Non-directional antenna:  
 Directional antenna : current - - - amperes; resistance - - - ohms.

10. Hours of operation: Specified in BZ-820512AQ

11. Conditions .....: Attached

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission rules made thereunder, and further subject to conditions set forth in this license, <sup>1</sup> the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 A.M. Local Time

April 1, 1991

The Commission reserves the right during said license period of terminating this license or making effective any change, 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.  
The license is issued on the licensee's representation that the statements contained in the 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, as amended. 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, as amended.

<sup>1</sup> This license consists of this page and pages



MAY 29 1990

Dated: MAY 25 1990

KN/ed

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DATE:

DA-D

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

**No. and Type of Elements:** Two (2) Vertical, guyed, series-excited, steel radiators of uniform cross-section. Theoretical RMS: 1014.21 mV/m @ 1 km. Standard RMS: 1065.44 mV/m @ 1 km.  $Q = 31.623$ , Day.

**Height above Insulators:** 59.8 m (109°)

**Overall Height:** 60.7 m

**Spacing and Orientation:** Towers are spaced 90° on a line bearing 277° T.

**Non-Directional Antenna:** None-used

**Ground System consists** of 120-49.4 m copper radials about base of each tower except where shortened and bonded to copper strap midway between elements or limited by property boundary. In addition a 7.3 m X 7.3 m copper ground screen is installed about base W (#2) and 120-15.2 m radials about base of E (#1).

2. THEORETICAL SPECIFICATIONS

	Tower	E (#1)	W (#2)
<b>Phasing:</b>		0°	100°
<b>Field Ratio:</b>		1.00	0.92

3. OPERATING SPECIFICATIONS

<b>Phase Indication*:</b>		0°	93.5°
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<b>Antenna Base Current Ratio</b>		1.00	1.014
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<b>Antenna Monitor Sample Current Ratio:</b>		1.00	1.015
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\* As indicated by Gorman-Redlich CMR(3-242)Antenna Monitor

Antenna sampling system approved under section 73.68(b) of the rules.

WGAM

BZ-900308AA

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 249.5 degree True North. From the WPOE transmitter, turn right and proceed south 1.0 miles to Route 2A (Maine Street). Turn right and proceed west 1.1 miles to rotary. Continue through rotary 0.1 mile to Route 2 West. Proceed west 4.7 miles on Route 2 to Old Greenfield Road. Turn left and proceed east 0.2 mile to Zera Fiske Road. Turn right and proceed south 1.1 miles to South Road. Turn right and proceed west 0.5 mile to driveway on right. Monitor point is in driveway 15 feet from the road and lies 4.34 miles from the antenna. The field intensity measured at this point should not exceed 2.34 mV/m.

Direction of 277 degree True North. From the WPOE transmitter, turn right and proceed south 1.0 miles to Route 2A (Main Street). Turn right and proceed west 1.1 miles to rotary. Continue through rotary 0.1 mile to Route 2 West. Proceed west 3.7 miles on Route 2 to Shelburne Colraine Road. Monitor point is on north side of Route 2, 20 feet west of the Route 2 sign and lies 3.41 miles from the antenna. The field intensity measured at this point should not exceed 6.74 mV/m.

Direction of 304.5 degree True North. From the WPOE transmitter turn right and proceed south 1.0 miles to Route 2A (Maine Street). Turn right and proceed west 1.1 miles to rotary. Continue through rotary 0.1 mile to Route 2 West. Proceed west 3.7 miles to Shelburn Colrain Road. Turn right and proceed north 1.8 miles to Colrain Greenfield Road. Monitor point is northeast of intersection midway between road sign and oak tree and lies 3.80 miles from the antenna. The field intensity measured at this point should not exceed 4.35 mV/m.