FCC Form 352
May 1988

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

AM BROADCAST STATION LICENSE

File No. : BZ-910402AD

Call Sign : ~~WLAM~~ WLVP

LICENSEE:

THE GREAT PORTLAND WIRELESS TALKING MACHINE COMPANY 24994

1. Community of License : Gorham, ME

2. Transmitter location : SE side of Waterman Road 0.6 km SW of Flaggy Meadow Road. Buxton, ME

North latitude : 43 ° 39 ' 46 "
West longitude : 70 ° 29 ' 41 "

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)
574 Congress Street
Portland, ME

5. Remote control location:
912 Washington Street
Auburn, ME

6. Antenna and ground system: Attached

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: No obstruction marking and lighting required.

8. Frequency : 870 kHz

9. Nominal power (kW) : 10 Day 1 Night

Antenna input power (kW) :

10.5 Day ☐ Non-directional antenna: ☒ Directional antenna : current 14.51 amperes; resistance 50 ohms.

1.08 Night ☐ Non-directional antenna: ☒ Directional antenna : current 4.65 amperes; resistance 50 ohms.

10. Hours of operation: Specified in previous authorization

11. Conditions : - - -

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, [1] 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, 1998.

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.

[1] This license consists of this page and pages 2, 3, & 4

Dated: JUL 17 1991

FEDERAL COMMUNICATIONS COMMISSION

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FCC FORM 353-A

File No. BZ-910402AD Call Sign: ~~WPNN~~ WLAM Date: DA-2, U

1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

No. and Type of Elements: Four (4), series excited, uniform cross-section guyed towers. Theoretical RMS: 933.0 mV/m at 1 km day; 294.5 mV/m at 1 km, night; Standard RMS: 980.3 mV/m at 1 km, day; 309.4 mV/m at 1 km, night. Q = 31.6 mV/m, day; 10.0 mV/m, night.

Height above Insulators: 59.76 m (62.4°) Top Loading: 15.9°.

Overall Height: 61 m.

Spacing and Orientation: With tower # 1 as reference, Tower # 2 is 80° away at a bearing of 300° TN, tower #3 is 160° away at a bearing of 210° TN and tower #4 is 178.9° away at a bearing of 236.6° TN.

Non-Directional Antenna: Not authorized.

Ground System consists of 120 equally spaced, buried, copper radials about the base of each tower extending up to 86.3 m in length except where terminated by property boundaries or where intersecting radials are shortened and bonded, plus 120 interspersed radials 15.2 m in length about the base of each tower.

2. **THEORETICAL SPECIFICATIONS**

	Tower	#1(C)	#2(NE)	#3(SW)	#4(WSW)
Phasing:	Night	0°	126.8°	20.6°	145.6°
	Day	0°	128.6°	29.6°	158.2°
Field Ratio:					
	Night	1.00	1.17	1.10	1.29
	Day	1.00	1.70	1.43	2.38

3. **OPERATING SPECIFICATIONS**

Phase Indication*:					
	Night	0°	126.5°	21.5°	146°
	Day	0°	128.5°	29°	157.5°
Antenna Base Current Ratio					
	Night:	1.00	1.152	1.091	1.273
	Day:	1.00	1.705	1.393	2.377
Antenna Monitor Sample Current Ratio:					
	Night	0.780	0.905	0.860	1.00
	Day	0.420	0.720	0.610	1.00

* As indicated by Potomac Instruments AM-19 (204) Antenna Monitor

ANTENNA SAMPLING SYSTEM APPROVED UNDER SECTION 73.68(b) OF THE RULES.

WLAM

~~WPNN~~ BZ-910402AD

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 2.5° True North. From the transmitter driveway turn right onto Waterman Road and proceed northeast a distance of 0.4 km (0.25 mi) to the intersection of Flaggy Meadow Road. Turn right and travel east on Flaggy Meadow Road a distance of 2.6 km (1.6 mi) to the intersection of Cressey Road. Turn left onto Cressey and travel north a distance of 0.5 km (0.3 mi) to Route 25. Turn left onto Route 25 and proceed west a distance of 3.2 km (2.0 mi) to the intersection of Route 112. The monitor point is on the north side of Route 25 directly across from Route 112. The point is point number 1 on the survey and us 3.45 km (2.15 mi) from the antenna. The field intensity at this point should not exceed 97.94 mV/m Daytime.

Direction of 235.5° True North. From the transmitter driveway turn left onto Waterman Road and proceed southwest a distance of 1.4 km (0.9 mi) to the intersection of Hurlin Smith Road. Turn right and travel west on urlin Smith Road a distance of 1.3 km (0. 8 mi) to the intersection of Groveville Road. Turn left onto Groveville Road and travel south a distance of 2.4 km (1.5 mi) to Route 22. Turn left onto Route 22 and proceed southeast a distance of 0.88 km (0.55 mi). The monitor point is on the northeast side of Route 22 halfway between power poles 70 and 71, three paces off the road. The nearest tree is marked. The point is point number 1 on the survey and is 3.7 km (2.31 mi) from the antenna. The field intensity at this point should not exceed 26.08 mV/m Daytime.

Direction of 306.6° True North. From the transmitter driveway turn left onto Waterman Road and proceed southwest a distance of 1.4 km (0.9 mi) to the intersection of Hurlin Smith Road. Turn right and travel west on Hurlin Smith Road a distance of 1.3 km (0.8 mi) to the intersection of Groveville Road. Cross Groveville Road and travel northwest on Turkey Lane Road a distance of 4.2 km (2.6 mi) to Route 112. Turn a sharp right onto Route 112 and proceed east a distance of 1.8 km (1.1 mi). The monitor point is on the south side of Route 12, 50 paces west of the driveway to house #259 at the marked tree. The point is point number 1 on the survey and is 5.0 km (3.12 mi) for the antenna. The field intensity at this point should not exceed 90.9 mV/m Daytime.

Direction of 220° True North. From the transmitter driveway turn left onto Waterman Road and proceed southwest a distance of 1.3 km (0.8 mi) to the intersection of Hurlin Smith Road. Turn right and travel west on Hurlin Smith Road a distance of 1.4 km (0. 9 mi) to the intersection of Groveville Road. Turn left onto Groveville Road and travel south a distance of 2.4 km (1.5 mi) to Route 22. Turn left onto Route 22 and proceed southeast a distance of 1.75 km (1.1 mi) to Rankin Road. turn right onto Rankin Road and

travel south a distance of 1.05 km (0.65 mi). The monitor point is on the east side of Rankin Road at the driveway to house #390. The point is point number 2 on the survey and is 4.55 km (2.84 mi) for the antenna. The field intensity at this point should not exceed 4.67 mV/m Nighttime.

Direction of 247° True North. From the transmitter driveway turn left onto Waterman Road and proceed southwest a distance of 1.3 km (0.8 mi) to the intersection of Hurlin Smith Road. Turn right and travel west on Hurlin Smith Road a distance of 1.4 km (0.9 mi) to the intersection of Groveville Road. Turn left onto Groveville Road and travel south a distance of 2.4 km (1.5 mi) to Route 22. Proceed across Route 22 less than 0.1 km (0.1 mi). The monitor point is on the south side of Groveville Road directly across from the door into the Highway Department Building. The point is point number 1 on the survey and is 4.2 km (2.6 mi) from the antenna. The field intensity at this point should not exceed 5.89 mV/m Nighttime.

Direction of 349° True North. From the transmitter driveway turn right onto Waterman Road and proceed northeast a distance of 0.4 km (0.25 mi) to the intersection of Flaggy Meadow Road. Turn right and travel east of Flaggy Meadow Road a distance of 2.6 km (1.6 mi) to the intersection of Cressey Road. Turn left onto Cressey and travel north a distance of 0.5 km (0.3 mi) to Route 25. Turn left onto Route 25 and proceed west a distance of 3.2 km (2.0 mi) to the intersection of Route 112. Continue on Route 25 another 1.6 km (1.0 mi). The monitor point is on the north side of Route 25 across from power pole #106 at the marked tree. The point is point number 2 on the survey and is 4.8 km (2.15 mi) from the antenna. The field intensity at this point should not exceed 5.68 mV/m Nighttime.