

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BL-13,920
Call Sign: W P H M

MODIFIED
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, The LICENSEE

ENTERFORM, INC.

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 October 1, 1976

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

1. On a frequency of 1380 kHz.
2. With nominal power of 5 kilo watts nighttime and 5 kilo watts daytime,

with antenna input power of <u>5.4</u> kilo watts -	directional	Common Point	current	<u>10.4</u>	amperes
antenna nighttime	Common Point	resistance	<u>50</u>	ohms,
and antenna input power of <u>5.4</u> kilo watts -	directional	Common Point	current	<u>10.4</u>	amperes
antenna daytime	Common Point	resistance	<u>50</u>	ohms
3. Hours of operation: UNLIMITED

4. With the station located at: Port Huron, Michigan
5. With the main studio located at:

905 6th Street
Port Huron, Michigan
1403 Range Road
St. Clair Twp., Michigan

North Latitude: 42° 51' 50"
West Longitude: 82° 29' 40"

7. Transmitter(s): COLLINS 21E

other transmitter currently listed in the Commission's "Radio Equipment List, Part B, Aural Broadcast Equipment" for the power herein authorized).

8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: 1, 3, 11 & 21
9. Conditions:

Transmitter may be operated by remote control from 905 6th Street, Port Huron, Michigan.

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 revocation or suspension by the Government of the United States conferred by Section 306 of the Communications Act of 1934. This supersedes authorization

This license consists of one page and pages

2, 3 & 4

dated: August 18, 1975
JIM

FEDERAL
COMMUNICATIONS
COMMISSION



File No.: BL-13,920

Call Sign: W P H M

Date: 8-18-75

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM
No. and Type of Elements: Seven uniform cross-section, guyed, series-excited vertical radiators.

DA-2, U

Height above Insulators: 203' (101°) ^{102.5°}

Overall Height: 206'

Spacing and Orientation: SEE PAGE FOUR (4).

Non-Directional Antenna: None used.

Ground System consists of 120 equally spaced, buried, copper radials 178' in length plus 24x24 foot ground screen about the base of each tower. Intersecting radials shortened and bonded to transverse copper strap midway between adjacent elements.

2. THEORETICAL SPECIFICATIONS

TOWER	NW(#1)	WC(#2)	SW(#3)	S(#4)	NE(#5)	EC(#6)	SE(#7)
Phasing:							
Night	-218.6°	-71.19°	73.89°	218.6°	--	--	--
Day	-127.5°	3.67°	122.5°	--	-122.5°	9.27°	127.5°
Field Ratio:							
Night	0.381	1.0	0.985	0.381	--	--	--
Day	1.0	1.654	1.0	--	1.0	1.474	1.0

3. OPERATING SPECIFICATIONS

Phase Indication*:	(N)	-140°	0°	159.5°	-82°	--	--
	(D)	-125.5°	0°	127.5°	--	-128°	-1.3° 108°
Antenna Base	(N)	0.362	1.00	1.117	0.508	--	--
Current Ratio:	(D)	0.456	1.00	0.783	--	0.391	0.87 0.739

Antenna Monitor Sample	0.40	1.00	1.27	0.58	--	--	--
Current Ratio:	0.575	1.00	.785	--	0.372	0.80	0.568

* As indicated by Potomac Instruments AM-19D(210) antenna monitor.

Field measuring equipment shall be available at all times and the field intensity at each of the monitoring points shall be measured at least once every seven days and an appropriate record kept of all measurements so made.

DIRECTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 65° true North. From the transmitter access road, proceed North 0.75 miles on Range Road. Turn right and proceed 0.82 mile East on Davis Road. Turn right and proceed 0.5 mile South on Route 29. The monitoring point is East of the highway, 15 feet North of the garage of number 1223 Route 29. Distance from transmitter site is 1.05 miles. The field intensity measured at this point should not exceed 22 mV/m, DAYTIME.

Direction of 78° true North. From the transmitter access road, proceed North 0.75 mile on Range Road. Turn right and proceed 0.82 mile East on Davis Road. Turn right and proceed 0.74 mile South on Route 29. The monitoring point is East of Route 29 the Northeast end of the "Charles Crab" parking lot, 25 ft. Southwest of the "Mobil" sign. Distance from the transmitter site is 0.95 miles. The field intensity measured at this point should not exceed 22 mV/m DAYTIME & 21.0 mV/m, NIGHTTIME.

Direction of 98° true North. From the transmitter access road proceed North 0.75 mile on Range Road. Turn right and proceed 0.82 mile East on Davis Road. Turn right and proceed 1.1 miles South on Route 29 to Neuman Road. Turn right and proceed 0.1 mile West on Neuman Road. The monitoring point is on Neuman Road. Distance from transmitter site is 0.9 miles. The field intensity measured at this point should not exceed 46 mV/m, DAYTIME and 48 mV/m, NIGHTTIME.

Direction of 135° true North. From the transmitter access road, proceed South 1.26 miles on Range Road. Turn left and proceed 1.1 miles East on Yankee Road. Turn left and proceed 0.15 mile North on Route 29. The monitoring point is located 50 feet East of highway on deserted dirt driveway. Distance from transmitter site is 1.38 miles. The field intensity measured at this point should not exceed 50 mV/m, DAYTIME.

Direction of 168° true North. From the transmitter access road, proceed South 2.2 miles on Range Road. Turn left and proceed 0.48 mile East on Brown Street. Turn left and proceed 0.12 mile North on Fourth Street. Turn right and proceed past turn on Meldrum Circle. Monitoring point is on road in front of No. 129 Meldrum Circle. Distance from transmitter site is 2.05 miles. The field intensity measured at this point should not exceed 29 mV/m, DAYTIME and 33 mV/m NIGHTTIME.

Direction of 205° true North. From the transmitter access road, proceed South 2.2 miles on Range Road. Turn right and proceed on Garney Drive to intersection of Fred W. Moore Highway. Turn right and proceed 0.48 mile West to King Road. Turn left and proceed on Ring Road 2.05 miles South to Puttygut Road. Turn right and proceed 1.58 miles West on Puttygut Road. The monitoring point is on Puttygut Road 200 ft. East of 5820 Puttygut Road. Distance from transmitter site is 5.92 miles. The field intensity measured at this point should not exceed 18 mV/m, DAYTIME and 10 mV/m NIGHTTIME.

DIRECTION OF AND FIELD INTENSITY AT MONITORING POINTS: (Continued)

Direction of 250° true North. From the transmitter access road, proceed South 2.2 miles on Range Road. Turn right and proceed on Carney Road to intersection Clinton Street. Turn right and proceed 2.95 miles Northwest on Clinton which becomes Rattle Run. Turn right and proceed 0.6 mile North on Mitchell Road. The monitoring points is on the road opposite old windmill on West side of road. Distance from transmitter site is 2.35 miles. The field intensity measured at this point should not exceed 10.5 mV/m, DAYTIME.

SPACING AND ORIENTATION: Daytime: Towers in the form of a right angle parallelogram. Long sides consists of towers No. 1, 2, 3, 5, 6 and 7, spaced 177.9' (90°) on lines bearing 168° true with a total length of 355.8' for each long side. The short sides consist of towers N. 1, 5, 2, 6 and towers 3 and 7 spaced 346' (175°) on a line bearing true.

NIGHTTIME:

Towers #1, #2, #3, and #4 in line bearing 168° true and spaced 177.9' between adjacent elements.