



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

ZAMORA BROADCASTING SYSTEMS, INC.
23300 GODDARD ROAD
TAYLOR MI 48180

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Grant Date: December 06, 2016

Facility Id: 6593

Call Sign: WDTW

This license expires 3:00 a.m.
local time, October 01, 2020.

License File Number: BL-20160509EJD

This license covers permit no.: BP-20150304ACN as modified by
BMP-20160520AAN.

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

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 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. 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.

Hours of Operation: Unlimited

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

Jan.	8:00 AM	5:30 PM	Jul.	5:15 AM	8:15 PM
Feb.	7:30 AM	6:00 PM	Aug.	5:45 AM	7:30 PM
Mar.	6:45 AM	6:45 PM	Sep.	6:15 AM	6:45 PM
Apr.	6:00 AM	7:15 PM	Oct.	6:45 AM	6:00 PM
May	5:15 AM	7:45 PM	Nov.	7:30 AM	5:15 PM
Jun.	5:00 AM	8:15 PM	Dec.	8:00 AM	5:00 PM

Name of Licensee: ZAMORA BROADCASTING SYSTEMS, INC.

Station Location: DEARBORN, MI

Frequency (kHz): 1310

Station Class: B

Antenna Coordinates:

Day

Latitude: N 42 Deg 15 Min 50 Sec

Longitude: W 83 Deg 15 Min 16 Sec

Night

Latitude: N 42 Deg 15 Min 50 Sec

Longitude: W 83 Deg 15 Min 16 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: 10.4 Night: 10.4

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	
1	None	60.7
2	None	60.7

Night:

Tower No.	ASRN	
1	None	60.7
2	None	60.7
3	None	60.7
4	None	60.7
5	None	60.7
6	None	60.7

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 663.2 Night: 660.8

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 727.801 Night: 700.607

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	1.5000	30.000	0.0000	0.000	0	TL/S
2	1.0000	0.000	191.0000	90.000	0	TL/S

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	A	B	C	D
1	93.5	12.00	.00	.00
2	93.5	12.00	.00	.00

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	178.0	40.0	1420.50
2	308.0	40.0	277.95

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	TL/S
2	0.5240	-17.600	191.0000	90.000	0	TL/S
3	1.0000	99.200	90.0000	180.000	0	TL/S
4	0.5240	81.600	211.1000	115.200	0	TL/S
5	0.5240	17.600	191.0000	270.000	0	TL/S
6	0.5240	116.800	211.1000	244.800	0	TL/S

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	A	B	C	D
1	93.5	12.00	.00	.00
2	93.5	12.00	.00	.00
3	93.5	12.00	.00	.00
4	93.5	12.00	.00	.00
5	93.5	12.00	.00	.00
6	93.5	12.00	.00	.00

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	70.5	40.0	114.14
2	109.5	40.0	158.43
3	154.0	40.0	161.03
4	206.0	20.0	233.08
5	229.0	17.0	166.05
6	250.5	40.0	127.95
7	290.0	14.0	198.45
8	310.5	40.0	171.53

Day Directional Operation:

Twr. Phase No.	Antenna Monitor Sample Current Ratio
1 0	1
2 -32	0.73

Night Directional Operation:

Twr. Phase No.	Antenna Monitor Sample Current Ratio
1 0	1
2 -17.5	0.565
3 92.6	0.973
4 74.3	0.56
5 16.8	0.522
6 109.5	0.547

Antenna Monitor: POTOMAC AM-19

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)
90	3.92	49.49
232	4.07	33.29
308	7.97	17.16

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
70.5	3.07	32.28
109.5	3.63	29.76
154	4.13	25.2
206	3.06	58.8
229	3.78	28.08
250.5	6.67	10.08
290	3.08	46.56
310.5	2.8	38.64

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.
- 2 Ground System Description:
Elevated counterpoise ground system consists of 6 quarter wave radials (57.2 meters) located approximately 6.1 meters above ground.
- 3 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.

Special operating conditions or restrictions:

- 4 Location of Daytime Monitoring Points:
 Direction of 90° true North. The monitoring point is at 15820 Hanover Avenue, Allen Park, MI.
 GPS Coordinates: N 42° 15' 50" W 83° 12' 24"
 Direction of 232° true North. The monitor point is at 9012 Continental Drive, Taylor, MI.
 GPS Coordinates: N 42° 14' 29" W 83° 17' 35"
 Direction of 308° true North. The monitor point is at 29410 Judith Street, Inkster, MI.
 GPS Coordinates: N 42° 18' 29" W 83° 19' 50"

- 5 Location of Nighttime Monitoring Points:
 Direction of 70.5° true North. The monitoring point is located at 17420 O'Connor Ave., Allen Park, MI.
 GPS Coordinates: N 42° 16' 24" W 83° 13' 09"
 Direction of 109.5° true North. The monitoring point is located at Quandt Ave and Markese Ave, Allen Park, MI. GPS Coordinates: N 42° 15' 12.5" W 83° 12' 45"
 Direction of 154° true North. The monitoring point is located at 20141 Harmon St, Taylor, MI.
 GPS Coordinates: N 42° 13' 51" W 83° 13' 56"
 Direction of 206° true North. The monitoring point is located at 9350 Cooper St, Taylor, MI
 GPS Coordinates: N 42° 14' 21" W 83° 16' 14"
 Direction of 229° true North. The monitoring point is located at 9063 Beech-Daly Rd, Taylor, MI.
 GPS Coordinates: N 42° 14' 30" W 83° 17' 19"
 Direction of 250.5° true North. The monitoring point is located at Hollywood St and Garner St, Romulus, MI. GPS Coordinates: N 42° 14' 37" W 83° 19' 49"
 Direction of 290° true North. The monitoring point is located at 4945 Beech-Daly Rd, Taylor, MI.
 GPS Coordinates: N 42° 16' 26" W 83° 17' 21"
 Direction of 310.5° true North. The monitoring point is located at Andover Dr and Westlake Dr, Dearborn Heights, MI.
 GPS Coordinates: N 42° 16' 50" W 83° 16' 48"

*** END OF AUTHORIZATION ***