



**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

CHURCH OF THE WORD  
 20733 WEST TEN MILE ROAD  
 SOUTHFIELD MI 48075

Son Nguyen  
 Supervisory Engineer  
 Audio Division  
 Media Bureau

Grant Date: May 25, 2016

Facility Id: 13664

Call Sign: WFDF

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

License File Number: BMML-20151109FXM

This license modifies license no.: BL-20081211AGB

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

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License No.: BMML-20151109FXM

Name of Licensee: CHURCH OF THE WORD

Station Location: FARMINGTON HILLS, MI

Frequency (kHz): 910

Station Class: B

Antenna Coordinates:

Day

Latitude: N 42 Deg 03 Min 57 Sec

Longitude: W 83 Deg 23 Min 39 Sec

Night

Latitude: N 42 Deg 03 Min 57 Sec

Longitude: W 83 Deg 23 Min 39 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 50.0 Night: 25.0

Antenna Input Power (kW): Day: 52.7 Night: 26.3

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 32.45 Night: 22.95

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1238044	
2	1238077	
3	1238045	
4	1238047	
5	1238049	
6	1238051	
7	1238052	
8	1238056	

Night:

Tower No.	ASRN	Overall Height (m)
1	1238044	
2	1238077	
3	1238045	
4	1238047	
5	1238049	
6	1238051	
7	1238052	
8	1238056	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2205.3 Night: 1578  
 Standard RMS (mV/m/km): Night: 1658  
 Augmented RMS (mV/m/km): Day: 2317.887  
 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	0.6330	258.500	0.0000	0.000	0	127.0
2	0.9180	260.100	169.6000	88.300	0	127.0
3	0.7970	279.100	245.4000	85.600	0	127.0
4	0.6030	288.800	404.9000	88.400	0	127.0
5	0.6440	350.000	83.2000	180.700	0	127.0
6	1.0000	0.000	187.5000	114.000	0	127.0
7	0.7080	31.100	246.8000	105.400	0	127.0
8	0.6360	18.700	407.6000	99.300	0	127.0

\* 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	48.5	46.0	195.00
2	71.0	46.0	163.00
3	101.0	60.0	190.00
4	217.0	50.0	120.00
5	242.0	38.0	219.70
6	261.0	38.0	169.00

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.5910	-104.800	0.0000	0.000	0	127.0
2	0.8440	-109.600	169.6000	88.300	0	127.0
3	0.8120	-91.600	245.4000	85.600	0	127.0
4	0.7010	-63.100	404.9000	88.400	0	127.0
5	0.5860	-10.700	83.2000	180.700	0	127.0
6	1.0000	0.000	187.5000	114.000	0	127.0

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
7	0.7270	24.000	246.8000	105.400	0	127.0
8	0.5540	34.200	407.6000	99.300	0	127.0

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-0.8	0.565
2	0	1
3	10.4	0.796
4	36.3	0.535
5	114.6	0.464
6	122.4	0.726
7	159.9	0.459
8	142.3	0.493

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-3.7	0.613
2	-11.4	1.114
3	0	1
4	47	0.71
5	111.3	0.504
6	121.1	0.885
7	147.4	0.576
8	159.9	0.508

Antenna Monitor: POTOMAC INSTRUMENTS MODEL AM 1901

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The ground system consists of 120 equally spaced #10 AWG copper radials, each 82.4 meters in length, buried approximately 10 cm deep about each tower. The radials are truncated where they intersect a transverse copper strap running between adjacent towers.

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Special operating conditions or restrictions:

- 2 The licensee shall perform the measurements described in 73.155 at least once within each 24-month period.

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