



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

IMMACULATE HEART MEDIA, INC.
1496 BELLEVUE STREET
SUITE 202
GREEN BAY WI 54307

Son Nguyen
Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 67666

Call Sign: KCEO

License File Number: BML-20180216AAZ

Grant Date: **APR 20 2018**

This license expires 3:00 a.m.
local time, December 01, 2021.

This license modifies license no.: BMML-20141010ADV

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.	7:00 AM	5:00 PM	Jul.	4:45 AM	7:00 PM
Feb.	6:30 AM	5:30 PM	Aug.	5:15 AM	6:30 PM
Mar.	6:00 AM	6:00 PM	Sep.	5:30 AM	6:00 PM
Apr.	5:15 AM	6:15 PM	Oct.	6:00 AM	5:15 PM
May	4:45 AM	6:45 PM	Nov.	6:15 AM	4:45 PM
Jun.	4:45 AM	7:00 PM	Dec.	6:45 AM	4:45 PM

Callsign: KCEO

License No.: BML-20180216AAZ

Name of Licensee: IMMACULATE HEART MEDIA, INC.

Station Location: VISTA, CA

Frequency (kHz): 1000

Station Class: B

Antenna Coordinates:

Day

Latitude: N 33 Deg 13 Min 58 Sec

Longitude: W 117 Deg 16 Min 11 Sec

Night

Latitude: N 33 Deg 13 Min 58 Sec

Longitude: W 117 Deg 16 Min 11 Sec

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

Nominal Power (kW): Day: 10.0 Night: 0.90

Antenna Input Power (kW): Day: 10.5 Night: 0.97

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 14.51 Night: 4.41

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1046152	
2	1046150	
3	1046151	
4	1046153	

Night:

Tower No.	ASRN	Overall Height (m)
1	1046152	
2	1046150	
3	1046151	
4	1046153	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 979.94 Night: 308.5
 Standard RMS (mV/m/km): Day: 1029.47 Night: 324.16
 Augmented RMS (mV/m/km):

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	0.3100	142.000	80.0000	190.000	0	91.5
2	0.4600	117.000	0.0000	0.000	0	91.5
3	0.4600	51.000	80.0000	10.000	0	91.5
4	1.0000	0.000	89.0000	281.000	0	91.5

* Tower Reference Switch

0 = Spacing and orientation from reference tower
 1 = Spacing and orientation from previous tower

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.8730	-148.000	80.0000	190.000	0	91.5
2	1.0000	0.000	0.0000	0.000	0	91.5
3	0.4430	126.000	80.0000	10.000	0	91.5
4	0.4000	-110.000	89.0000	281.000	0	91.5

* Tower Reference Switch

0 = Spacing and orientation from reference tower
 1 = Spacing and orientation from previous tower

Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 142	0.31
2 117	0.46
3 51	0.46
4 0	1

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 -148	0.873
2 0	1
3 126	0.443

Night Directional Operation:

Twr. Phase	Antenna Monitor
No. (Deg.)	Sample Current Ratio
4 -110	0.4

Antenna Monitor: POTOMAC INSTRUMENTS AM-19(204)

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The application BML-20180216AAZ to convert KCEO (AM) from noncommercial educational status to commercial status IS GRANTED, effective as of the grant date of this license.
- 2 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.
- 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.
- 4 Day and Night arrays consist of towers South, Center, North and West referenced in that order.
- 5 Ground system consists of 120 equally spaced, buried, copper radials about the base of each tower, each 75 meters in length except where terminated by property boundaries or where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers.
- 6 The licensee shall perform the measurements described in Section 73.155 at least once within each 24 month period.

*** END OF AUTHORIZATION ***