



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

CBS RADIO WLIF-AM, INC.
 1725 DESALES STREET, NW
 SUITE 501
 WASHINGTON DC 20036

Son Nguyen
 Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Facility Id: 28636

Call Sign: WJZ

License File Number: BMML-20160803ADB

Grant Date: **NOV 8 2016**
 This license expires 3:00 a.m.
 local time, October 01, 2019.

This license modifies license no. BZ-19900427AE

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

RECEIVED
 NOV 17
 COMMUNICATIONS SERVICES

Callsign: WJZ

License No.: BMML-20160803ADB

Name of Licensee: CBS RADIO WLIF-AM, INC.

Station Location: BALTIMORE, MD

Frequency (kHz): 1300

Station Class: B

Antenna Coordinates:

Day

Latitude: N 39 Deg 20 Min 00 Sec
Longitude: W 76 Deg 46 Min 13 Sec

Night

Latitude: N 39 Deg 20 Min 00 Sec
Longitude: W 76 Deg 46 Min 13 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: 10.39 Night: 10.39
Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1042978	
2	1042979	
3	1042980	
4	1042981	

Night:

Tower No.	ASRN	Overall Height (m)
1	1042978	
2	1042979	
3	1042980	
4	1042981	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 935.03 Night: 936.64

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 1014.57 Night: 1022.68

Q Factor: Day: 28.15 Night: 28.05

Theoretical Parameters:

Day 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	219.0
2	0.4050	177.500	86.8000	282.300	0	219.0
3	0.2150	15.100	146.0000	24.000	0	219.0
4	0.5420	-13.300	186.2000	51.700	0	219.0

* 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	0.0	40.0	675.92
2	20.0	40.0	552.33
3	40.0	40.0	508.55
4	65.0	50.0	683.97
5	125.0	45.0	1763.82
6	147.5	45.0	1366.74
7	170.0	45.0	752.56
8	195.0	50.0	402.34
9	220.0	45.0	268.76
10	242.5	45.0	450.62
11	265.0	45.0	785.71
12	287.5	45.0	1265.91
13	310.0	40.0	1534.59
14	330.0	40.0	1313.58

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	219.0
2	0.8600	101.300	86.8000	282.300	0	219.0

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
3	0.5000	87.300	146.0000	24.000	0	219.0
4	0.4700	-15.300	186.2000	51.700	0	219.0

* 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	0.0	40.0	740.14
2	20.0	40.0	683.97
3	40.0	10.0	655.00
4	45.0	10.0	651.78
5	65.0	40.0	737.24
6	90.0	45.0	1159.81
7	112.5	45.0	1881.84
8	135.0	45.0	2267.23
9	170.0	20.0	1348.13
10	180.0	20.0	963.31
11	195.0	30.0	563.27
12	220.0	45.0	326.70
13	235.0	10.0	217.26
14	242.5	45.0	194.33
15	265.0	45.0	137.76
16	280.0	30.0	128.75
17	284.0	12.0	128.75
18	290.0	15.0	115.87
19	300.0	40.0	120.70
20	305.0	10.0	120.70
21	330.0	50.0	442.57

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	-174.2	0.365
3	-2.2	0.248
4	-13.5	0.674

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	95.6	0.79
3	80.1	0.406
4	-17.8	0.464

Antenna Monitor: POTOMAC INSTRUMENTS, INC. MODEL 1901-4

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The existing ground system consists of 120 equally spaced buried copper radials around the base of each tower, each extending 91 feet to 72 feet from the base of the tower. Intersecting radials are shortened and bonded to a transverse copper strap at points of intersection.
- 2 The licensee shall perform the measurements described in 73.155 at least once within each 24-month period.

*** END OF AUTHORIZATION ***