



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

ALPHA MEDIA LICENSEE LLC
 1211 SW 5TH AVENUE
 SUITE 750
 PORTLAND OR 97204

Son Nguyen
 Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Facility Id: 23466

Call Sign: WHAG

License File Number: BMML-20180828ACB

Grant Date: **NOV 23 2018**
 This license expires 3:00 a.m.
 local time, October 01, 2019.

Re-license pursuant to the method of moment rules

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: Daytime with Secondary nighttime

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

Jan.	7:30 AM	5:15 PM	Jul.	5:00 AM	7:45 PM
Feb.	7:00 AM	5:45 PM	Aug.	5:15 AM	7:15 PM
Mar.	6:30 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.	7:00 AM	5:00 PM
Jun.	4:45 AM	7:45 PM	Dec.	7:30 AM	4:45 PM

Callsign: WHAG

License No.: BMML-20180828ACB

Name of Licensee: ALPHA MEDIA LICENSEE LLC

Station Location: HALFWAY, MD

Frequency (kHz): 1410

Station Class: D

Antenna Coordinates:

Day

Latitude: N 39 Deg 37 Min 03 Sec

Longitude: W 77 Deg 44 Min 17 Sec

Night

Latitude: N 39 Deg 37 Min 03 Sec

Longitude: W 77 Deg 44 Min 17 Sec

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

Nominal Power (kW): Day: 1.0 Night: 0.099

Antenna Input Power (kW): Day: 1.08 Night: 0.106

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 4.65 Night: 1.46

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN
1	None
2	None

Night:

Tower No.	ASRN
1	None
2	None

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 305.78 Night: 96.21

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 322.93 Night: 101.61

Q Factor: Day: 10 Night: 3.15

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	90.0
2	0.8330	90.000	90.0000	217.000	0	90.0

* 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	32.3	10.4	465.10
2	37.5	10.4	466.71
3	43.8	12.4	465.10
4	185.8	23.4	68.40
5	197.5	20.0	48.28
6	207.5	20.0	48.28
7	217.5	20.0	48.28
8	227.5	20.0	48.28
9	237.5	20.0	48.28
10	247.8	20.4	67.59
11	317.0	10.0	366.30
12	357.5	59.0	450.62

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	90.0
2	0.8330	90.000	90.0000	217.000	0	90.0

* 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	32.3	10.4	146.30
2	37.5	10.4	146.80
3	43.8	12.4	146.30
4	185.8	23.4	21.50
5	197.5	20.0	15.20
6	207.5	20.0	15.20
7	217.5	20.0	15.20
8	227.5	20.0	15.20
9	237.5	20.0	15.20
10	247.8	20.4	21.30
11	317.0	10.0	115.30
12	357.5	59.0	141.80

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	79.3	1.058

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	79.3	1.058

Antenna Monitor: POTOMAC INSTRUMENTS 1900

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The permittee/licensee in coordination with other users of the site 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: The ground system consists of 120, equally spaced, radials per tower, 175' (53.3 meters) in length except those extending to transverse strap midway between towers. A 24' by 18' (7.3 meter by 5.5 meter) copper ground screen is bonded into the ground system at the base of each tower. Tower one supports a Shively 6813, three bays, full spaced, with the feed line fed through an isocouplers at the tower base.

*** END OF AUTHORIZATION ***