



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

Authorizing Official:

Official Mailing Address:

PAX ET BONUM, INC.  
P.O. BOX 89  
REXFORD NY 12148

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Facility Id: 72117

Call Sign: WOPG

License File Number: BML-20131031AHN

Grant Date: February 12, 2014

This license expires 3:00 a.m.  
local time, June 01, 2014.

This license modifies license Number: BZ-20071001DRX

NON-COMMERCIAL, EDUCATIONAL STATION

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

Name of Licensee: PAX ET BONUM, INC.

Station Location: ALBANY, NY

Frequency (kHz): 1460

Station Class: B

Antenna Coordinates:

Day

Latitude: N 42 Deg 37 Min 21 Sec
Longitude: W 73 Deg 48 Min 09 Sec

Night

Latitude: N 42 Deg 37 Min 21 Sec
Longitude: W 73 Deg 48 Min 09 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: 5.0 Night: 5.4

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 2.98 Night: 10.1

Resistance (ohms): Day: 563 Night: 52.5

Non-Directional Antenna: Day

Radiator Height: meters; 139 deg

Theoretical Efficiency: 339.57 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No. ASRN
1 None

Night:

Tower No. ASRN
1 None
2 None
3 None

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 804.67  
 Standard RMS (mV/m/km):  
 Augmented RMS (mV/m/km): Night: 852.6  
 Q Factor: Night:

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	5.0000	290.000	0	139.0
2	0.5050	144.500	90.0000	200.000	0	139.0
3	0.6450	-123.500	90.0000	20.000	0	139.0

\* 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	98.0	76.0	561.66
2	169.5	11.0	148.06
3	175.0	11.0	141.62
4	187.5	25.0	159.33
5	200.0	25.0	168.98
6	215.5	31.0	131.97
7	231.0	29.0	88.51
8	245.5	29.0	136.79
9	260.0	17.0	178.64
10	268.5	17.0	175.42
11	277.0	11.0	160.93
12	282.5	11.0	177.03
13	310.0	44.0	756.39

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	140	0.44
3	-130	0.65

Antenna Monitor: POTOMAC INSTRUMENTS AM-1901-3

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
175	4.39	13.8
231	1.85	27.9
277	3	33.8

Special operating conditions or restrictions:

1 MONITOR POINT DESCRIPTIONS

175° - Point located near intersection in open field, 200 feet west of US Route 9W and 150 feet north of Wemple Road, 4.39 km from site, max 13.8 mV/m nighttime.

231° - From intersection of Elsmere Avenue and Fernbank Avenue East, proceed left on Fernbank to 0.08 km to trail going north, then north on trail for 0.08 km to point located on grassy knoll opposite path to bran to west, 1.85 km from site, max 27.9 mV/m nighttime.

277° - From intersection of Hudson Avenue and Hunter Road, proceed north on Hunter for 0.16 km to point, located in center of road over culvert, 3.0 km from site, max 33.8 mV/m nighttime.

2 Ground system consists of 120 equally spaced, buried, copper radials about the base of each tower, each 75.2 meters in length except where shortened and bond at points of intersection, plus a 9.8 m square ground screen about the base of each tower.

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