



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

Authorizing Official:

Official Mailing Address:

\_\_\_\_\_  
 RHODE ISLAND PUBLIC RADIO  
 ONE UNION STATION  
 PROVIDENCE RI 02903  
 \_\_\_\_\_

\_\_\_\_\_  
*Son Nguyen*  
 Son Nguyen  
 Supervisory Engineer  
 Audio Division  
 Media Bureau  
 \_\_\_\_\_

Facility Id: 48308

Call Sign: WRPA

License File Number: BL-20030401CKB

Grant Date: May 20, 2003

This license expires 3:00 a.m.  
 local time, April 01, 2006.

This supersedes authorization of same date to update all MP descriptions per licensee's request. (3-14-19 JBS)

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

www.ck12.org

Callsign: WRPA

License No.: BL-20030401CKB

Name of Licensee: RHODE ISLAND PUBLIC RADIO

Station Location: PROVIDENCE, RI

Frequency (kHz): 1290

Station Class: B

Antenna Coordinates:

Day

Latitude: N 41 Deg 51 Min 21 Sec

Longitude: W 71 Deg 26 Min 41 Sec

Night

Latitude: N 41 Deg 51 Min 21 Sec

Longitude: W 71 Deg 26 Min 41 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: 10.0

Antenna Input Power (kW): Day: 10.53 Night: 10.53

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 14.5 Night: 14.5

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	
1	None	59.4
2	None	59.4
3	None	59.4

Night:

Tower No.	ASRN	
1	None	59.4
2	None	59.4
3	None	59.4



DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 1035 Night: 1032

Standard RMS (mV/m/km): Day: 1087

Augmented RMS (mV/m/km): Night: 1084

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	1.0000	23.500	10.0000	210.000	0	90.0
2	0.4890	-147.000	90.0000	120.000	0	90.0
3	1.0240	166.000	90.0000	300.000	0	90.0

\* 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	1.0000	0.000	10.0000	210.000	0	90.0
2	0.5410	-121.200	90.0000	120.000	0	90.0
3	0.4900	122.700	89.7000	285.600	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	234.5	40.0	85.20
2	256.5	36.0	79.60
3	353.5	20.0	53.80

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-141.7	0.915
2	33.7	0.46
3	0	1



## Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 0	1
2 -119.3	0.434
3 122.1	0.539

Antenna Monitor: POTOMAC INSTRUMENTS1901

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

## Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
39.5	4.97	26.41
265	4.04	3.75
339	3.54	32.23

## Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
234.5	5.23	4.6
256.5	4.54	7.7
330.5	7.35	1.6
353.5	3.38	7.55

## Special operating conditions or restrictions:

- 1 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.
- 2 Description of Ground System:  
120 evenly spaced, buried copper wire radials, each 58.1 meters long except where shortened at property boundaries or where overlapping radials are bonded to 4 inch copper straps.





## Special operating conditions or restrictions:

## 3 Daytime Monitoring Point Descriptions

39.5° - From Moshashuck Cemetery entrance (978 Londaes Ave, Central Falls, RI) bear right, then take immediate left, then past island in road, then take third left (south) and proceed halfway down road to radial point #5 located on pavement, halfway between the large Pierson Hall headstone on right (west), and small (half-buried) Shore headstone on left (east). NAD27 (41-52-25.37 N, 71-24-21.62 W)

265° - Radial point #4 located in unpaved parking area beside house (28 Milton Street, Johnston, RI), on edge of road pavement, closest to corner of a wooden picket fence, across the street from telephone pole with blue sign that reads "Road Ends No Turnaround Ahead". NAD27 (41-51-09.68 N 71-29-33.42 W)

339° - Radial point #1 located at 210 Twin River Road, Lincoln, RI, where driveway meets the road, and centered between brick driveway markers and edge of road pavement. NAD27 (41-53-07.24 N 71-27-32.64 W)

## Nighttime Monitor Point Descriptions:

234.5° - Radial point #3 located at 23 Kern Acre Road, Johnston, RI, centered at edge of pavement at end of road. NAD27 (41-49-43.31 N 71-29-45.49 W)

256.5° - Radial point #4 located in parking lot of King's Tabernacle Church (500 Greenville Ave, Johnston, RI), on east side of church building, 20 feet northeast from small decorative boulder next to church's east annex. NAD27 (41-50-47.76 N 71-29-58.04 W)

330.5° - Radial point #2 located at North Central Airport (160 Limerock Road, Smithfield, RI) at end of runway near chain link fence gate. NAD27 (41-54-50.55 N 71-29-14.57 W)

353.5° Radial point #1 located in SW parking lot of Twin River Casino (100 Twin River Road, Lincoln, RI) . Enter casino property from Louisquisset Pike (SR-246) onto perimeter road (Paul Street), then take third right into parking lot, then fifth left into rows of spaces. Go to end, to fifth spot from light pole with sign (WEST 12), near storm drain. NAD27 (41-53-07.22 N 71-26-54.47 W)

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

