



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

WXXI PUBLIC BROADCASTING COUNCIL
P.O. BOX 30021
280 STATE STREET
ROCHESTER NY 14603

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 74220

Call Sign: WXXI

License File Number: BZ-20031110AOF

Grant Date: June 10, 2004

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

DM

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.	7:45 AM	5:00 PM	Jul.	4:45 AM	7:45 PM
Feb.	7:15 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.	6:30 AM	5:30 PM
May	4:45 AM	7:30 PM	Nov.	7:00 AM	4:45 PM
Jun.	4:30 AM	7:45 PM	Dec.	7:30 AM	4:30 PM

Callsign: WXXI

License No.: BZ-20031110AOF

Name of Licensee: WXXI PUBLIC BROADCASTING COUNCIL

Station Location: ROCHESTER, NY

Frequency (kHz): 1370

Station Class: B

Antenna Coordinates:

Day

Latitude: N 43 Deg 06 Min 01 Sec

Longitude: W 77 Deg 34 Min 23 Sec

Night

Latitude: N 43 Deg 06 Min 01 Sec

Longitude: W 77 Deg 34 Min 23 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: 7.07 Night: 10.39

Resistance (ohms): Day: 100 Night: 50

Non-Directional Antenna: Day

Radiator Height: 60.9 meters; 100.2 deg

Theoretical Efficiency: 312.21 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1003955	

Night:

Tower No.	ASRN	Overall Height (m)
1	1003955	
2	1003954	
3	1003956	
4	1003957	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 737.81
 Standard RMS (mV/m/km): Night: 775.07
 Augmented RMS (mV/m/km):
 Q Factor: Night:

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.9737	-171.300	100.4000	2.000	0	100.2
2	1.0000	0.000	0.0000	0.000	0	100.2
3	0.8987	-144.200	146.1000	285.350	0	100.2
4	0.8676	39.400	150.0000	250.000	0	100.2

* Tower Reference Switch

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

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	145	0.925
2	-42.4	0.988
3	168.7	0.74
4	0	1

Antenna Monitor: POTOMAC INSTRUMENTS AM-19D (210) & PMA-19

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 Tower #3 (NE) used for daytime ND operation. Nighttime antenna system consists of towers #3 (NE), #4 (SE), #2 (NW), and #1 (SW) referenced in that order.
- 2 This license modifies most recent license BL-19901219AB to remove critical array parameters (Commission no longer designates critical arrays).

Special operating conditions or restrictions:

3 MONITOR POINT DESCRIPTIONS:

92.5° - From intersection of Main Street and Washington Street, proceed on Washington Street to point located to East of Washington Street in Entrance No. 4 to Pittsford Cemetery, on South should of entrance driveway, 18 feet East of Cemetery entrance sign, 5.09 km from site, max 16.3 mV/m nighttime.

229° - From intersection of East Henrietta Road and northerly driveway entrance to the Guardian Angels Church and School, proceed west on driveway to parking lot, then across the lot to southerly driveway to point located on East shoulder of driveway at metal post and log guardrail, 3.77 km from site, max 12.8 mV/m nighttime.

256.5° - From intersection of Andrews Memorial Drive and road labeled Lot C, proceed west of Lot C road for 0.25 km to Southeast corner of lot adjacent to RIT's Grace-Watson Hall, point located 15 feet out on a line extended from the 4 East-West guard posts, 8.05 km from site, max 6.0 mV/m nighttime.

*** END OF AUTHORIZATION ***