



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

Authorizing Official:

Official Mailing Address:

WASHINGTON DC FCC LICENSE SUB, LLC  
3415 UNIVERSITY AVENUE, WEST  
ST. PAUL MN 55114

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Grant Date: June 10, 2003

This license expires 3:00 a.m.  
local time, October 01, 2003.

Facility Id: 74120

Call Sign: WFED

License File Number: BL-20030221ACN

This License Covers Permit No.: BP-19900328AG

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.	5:00 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

Callsign: WFED

License No.: BL-20030221ACN

Name of Licensee: WASHINGTON DC FCC LICENSE SUB, LLC

Station Location: WASHINGTON, DC

Frequency (kHz): 1500

Station Class: A

Antenna Coordinates:

Day

Latitude: N 39 Deg 02 Min 30 Sec

Longitude: W 77 Deg 02 Min 45 Sec

Night

Latitude: N 39 Deg 02 Min 30 Sec

Longitude: W 77 Deg 02 Min 45 Sec

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

Nominal Power (kW): Day: 50.0 Night: 50.0

Antenna Input Power (kW): Day: 52.6 Night: 52.6

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 32.45 Night: 32.45

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1053549	
2	1053550	
3	1053551	

Night:

Tower No.	ASRN	Overall Height (m)
1	1053549	
2	1053550	
3	1053551	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2655.4 Night: 2719.36

Standard RMS (mV/m/km): Night: 2856.29

Augmented RMS (mV/m/km): Day: 2809.4

Q Factor: Day: 70.71 Night: 70.71

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	185.0
2	0.5650	-67.000	87.3000	114.500	0	185.0
3	0.4190	-139.000	87.3000	114.500	1	185.0

\* 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	51.0	1287.48
2	37.5	25.0	3250.87
3	190.0	20.0	3339.39
4	242.0	24.0	1287.48
5	254.5	20.0	1287.48
6	334.5	20.0	1287.48
7	347.0	26.0	1287.48

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	-65.000	0.0000	0.000	0	185.0
2	1.7000	13.000	87.3000	294.500	0	185.0
3	1.0000	65.000	174.6000	294.500	0	185.0

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	76.5	1.08
2	0	1

Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
3 -78.6	0.905

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 66.3	0.474
2 0	1
3 -85	0.913

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
294.5	4.63	233

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
114.5	2.54	571.5
272.5	3.96	31
294.5	4.36	49.6
316.5	2.3	106.9

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 Direction of Monitoring Points:

Direction of 294.5 degrees true North. (Daytime) From the transmitter, proceed west on University Boulevard 0.5 miles to Viers Mill Road. Turn right onto Viers Mill Road and proceed 2.5 miles to Gaynor Road. Turn left on Gaynor Road to "dead end" - 0.1 miles from Viers Mill Road. Walk on a path from the "dead end" approximately 0.1 miles to creek. The monitoring point is on a large sewer cap on the creek bank, to the left of the path.

## Special operating conditions or restrictions:

- 3 Direction of 114.5 degrees true North. (Nighttime). Point Number 7. University Blvd east to left on Caddington Ave. Take Caddington to Cavalier Drive and go right. Go to Hannes Rd and go right. Point is across the street from 330 Hannes in field.  
  
Direction of 272.5 degrees true North. (Nighttime). Point Number 12. Viers Mill Rd to Randolph Road go left. Go to Rocking Horse Rd and go left. Make a left on Ashley Drive and go to Wilwyn Way. Point is in front of 4601 Wilwyn Way on sidewalk towards the right side of house.  
  
Direction of 294.5 degrees true North. (Nighttime). Point Number 11. North on Viers Mill Rd to Randolph Rd. Left onto Randolph then right onto Dewey Rd to Edgebrook Rd. Left on Edgebrook to park. Point is on sidewalk in front of park sign "Winding Creek Park".
- 4 Direction of 316.5 degrees true North. (Nighttime). Point Number 8. Viers Mill Rd north to right on Andrew St. Follow Andrew to Valleywood and go left to house 12229. Point is in open area across from 12229 Valleywood Rd.
- 5 The permittee must accept skywave interference to the nighttime facilities authorized herein from the operation of Station KSTP, as authorized by Construction Permit BP-19900329AF. The nighttime 0.5 mV/m, 50% skywave secondary service contour will be protected from objectionable interference from other stations on a single-limit basis as provided in Section 73.182, except that such protection will not be provided within the areas where interference to WTOP from Station KSTP is predicted to occur. The nighttime groundwave primary service contour will be protected on a root-sum-square (RSS) basis, 25% exclusion method, from interference caused by other stations above the single limit imposed by Station KSTP, which is assumed to be 2.5 mV/m. See letter from Acting Chief, Audio Services Division to Thomas J. Hutton, Esq. et al, May 30, 2001.
- 6 186 buried, copper radials about the base of each tower, each 106.7 meters in length except where terminated by property boundaries or where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers, plus a copper ground screen 12.2 meters square, about the base of each tower.

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