Federal Communications Commission

AM STATION LICENSE

Licensee/Permittee
RADIO VERMONT, INC.
P.O. BOX 550
WATERBURY, VT, 05676

Call Sign	Facility ID
WDEV	54866

File Number	This License Modifies License No.	
0000226386	BL-20050811ACV	
Filing Date	**Grant Date**	**Expiration Date**
11/15/2023	05/02/2024	04/01/2030

Description Text
Verizon Wireless has removed antennas, transmission lines and isocouplers from tower #1 which impacted the WDEV nighttime directional pattern. Thus, the station is relicensing per Method of Moments.

Community of License	Frequency (KHz)	Station Class	Service Type
City: Waterbury **State:** VT	550	B	Main

Facility Type
Commercial

Hours of Operation
Daytime
Nighttime

Station Antenna Modes/Antenna Types
Daytime: Directional
Nighttime: Directional

Average Hours of Sunrise and Sunset
Local Standard Time (Non-Advanced)

Month	Sunrise	Sunset
January	7:30	16:30
February	6:45	17:15
March	6:00	18:00
April	5:15	18:30
May	4:30	19:15
June	4:00	19:30
July	4:15	19:30
August	4:45	19:00
September	5:30	18:00
October	6:00	17:15
November	6:45	16:30
December	7:15	16:15

Transmitter

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

Antenna Mode: Daytime

Antenna Type: Directional

Antenna Coordinates (NAD 83)

Latitude
44° 21' 17.2" N

Longitude
72° 45' 5.4" W

Nominal Power (kW)
5.000

Antenna Input Power (kW)
5.400

Current (Amperes)
10.39

Resistance (Ohms)
50

Antenna Structure Registration Number(s)

Tower No.	ASRN	Overall Height *(m)*
1	1059327	132.6
2	1059326	132.6

Description of Daytime Directional Antenna System

Theoretical RMS *(mV/m/km)*	Standard RMS *(mV/m/km)*	Augmented RMS *(mV/m/km)*	Q Factor
630.9	662.8	668.8	22.36

Theoretical Parameters

Tower No.	Field Ratio	Phasing *(deg.)*	Spacing *(deg.)*	Orientation *(deg.)*	Tower Ref. Switch*	Height *(deg.)*
1	1	0	0	0	0	87.0
2	0.75	-143	84	129	0	87.0

** Tower Reference Switch*

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

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	Tower Type	A	B	C	D
1	Neither				
2	Neither				

Augmentation Parameters

Aug. No.	**Central Azimuth** *(Deg. T)*	**Span** *(Deg.)*	**Radiation at Central Azimuth** *(mV/m @ 1 km)*
1	13	20.0	193.10
2	100	58	1013.9
3	129	58.0	1062.20
4	203.0	70.0	643.7
5	245.0	20.0	193.10

Monitoring Points

Radial *(Deg. T)*	**Distance From Transmitter** *(km)*	**Maximum Field Strength** *(mV/m)*

Operating Parameters

Tower	**Antenna monitor current sample or voltage sample ratio**	**Antenna monitor phase indication (degree)**
1	**1.000**	**0.0**
2	**1.439**	**142.1**

Antenna Mode: Nighttime

Antenna Type: Directional

Antenna Coordinates (NAD 83)

Latitude
44° 21' 17.2" N

Longitude
72° 45' 5.4" W

Nominal Power (kW)
1.000

Antenna Input Power (kW)
2.268

Current (Amperes)
6.73

Resistance (Ohms)
50

Antenna Structure Registration Number(s)

Tower No.	ASRN	Overall Height *(m)*
1	1059327	132.6
2	1059326	132.6
3	1244187	132.6

Description of Nighttime Directional Antenna System

Theoretical RMS *(mV/m/km)*	Standard RMS *(mV/m/km)*	Augmented RMS *(mV/m/km)*	Q Factor
355.7	374.1	374.2	20.50

Theoretical Parameters

Tower No.	Field Ratio	Phasing *(deg.)*	Spacing *(deg.)*	Orientation *(deg.)*	Tower Ref. Switch*	Height *(deg.)*
1	1.13	177.7	0	0	0	87.0
2	1.58	-3.5	84	129	0	87.0
3	1	-177.7	180	129	0	87.0

** Tower Reference Switch*

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

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	Tower Type	A	B	C	D
1	Neither				
2	Neither				
3	Neither				

Augmentation Parameters

Aug. No.	Central Azimuth *(Deg. T)*	Span *(Deg.)*	Radiation at Central Azimuth *(mV/m @ 1 km)*
1	243.0	22	88.5
2	243.0	10	103.0

Monitoring Points

Radial *(Deg. T)*	Distance From Transmitter *(km)*	Maximum Field Strength *(mV/m)*

Operating Parameters

Tower	Antenna monitor current sample or voltage sample ratio	Antenna monitor phase indication (degree)
1	**0.553**	**-174.9**
2	**1.000**	**0.0**
3	**0.732**	**-179.7**

Special operating conditions or restrictions

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.

- Ground System consists of 120-243.9 m equally, spaced buried copper radials except tower highway where minimum length is 137.2 m.
- 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.

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.