


United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

Piedmont Communications, Inc.
P.O. Box 271
207 Spicers Mill Road
Orange VA 22960


Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 73191

Call Sign: WKTR

License File Number: BML-20220823AAB

Grant Date: October 12, 2022

This license expires 3:00 a.m.
local time, October 01, 2027.

This license modifies license no.: BML-20151014AEW
Application to convert from Non-Commercial to Commercial.

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: Daytime

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

Name of Licensee: Piedmont Communications, Inc.

Station Location: EARLYSVILLE, VA

Frequency (kHz): 840

Station Class: D

Antenna Coordinates:

Day

Latitude: N 38 Deg 15 Min 57 Sec

Longitude: W 78 Deg 24 Min 53 Sec

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

Nominal Power (kW): Day: 8.2

Antenna Input Power (kW): Day: 8.63

Antenna Mode: Day: DA

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

Current (amperes): Day: 13.14

Resistance (ohms): Day: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1017574	
2	1017575	
3	1017576	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 949.15

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 997.6

Q Factor: Day: 40.2158

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	TL/S
2	2.0800	-148.900	90.0000	178.000	0	TL/S
3	1.3970	66.200	167.1000	173.100	0	TL/S

* 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.	A	B	C	D
1	73.8	20.00	.00	.00
2	73.8	20.00	.00	.00
3	73.8	20.00	.00	.00

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	265.0	44.0	70.00

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	148	50
2	0	1
3	-143	0.64

Antenna Monitor: POTOMAC INSTRUMENTS AM-19(204)

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)
29.5	1.9	61.4
78	5.22	32.61
265	3.25	17.6
312	2.09	40.5

Special operating conditions or restrictions:

1 DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Three, vertical guyed, series excited steel radiator of uniform cross section, 73.2 m (73.8° and 20° top loading).

Ground System consists of 120 equally spaced, buried copper wire radials about the base of each tower 83.8 m in length except where terminated by property boundaries or where intersecting radial are shortened and bonded. Plus 120 interspersed radials 15.2 m in length.

2 DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

Direction of 29.5 True North: The point is located on State Route 672, 0.15 miles from the intersection with State Route 609 and directly across from the house addressed with mail box number 279. It lies 1.9 km from the WKTR antenna.

Direction of 78 True North: The point is located on the north edge of State Route 609, 3.57 miles east of the intersection with U.S. Highway 33 and ten feet from a farm field entrance. It lies 5.22 km from the WKTR antenna.

Direction of 265 True North: The point is located on State Route 624, 0.77 miles west and north of the intersection with U.S. Highway 33 and in line with the edge of a small shanty. It lies 3.25 km from the WKTR antenna.

Direction of 312 True North: The point is located on Old Farm Road, 0.48 miles west and southwest of the intersection with State Route 623 and directly across from the residence at 399 Old Farm Road. It lies 2.09 km from the WKTR antenna.

3 Calvary Chapel of Twin Falls, Inc. requests waiver of 47 C.F.R. § 73.1125 to operate the proposed facility as a "satellite" of co-owned noncommercial educational FM Station KAWZ (FM), Twin Falls, Idaho, (Facility ID No.: 8414). Based upon the specific representations contained therein, the waiver request IS GRANTED. The applicant shall abide by each representation proffered in the waiver request.

*** END OF AUTHORIZATION ***