



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

Authorizing Official:

Official Mailing Address:

BROADCAST EDUCATIONAL COMMUNICATIONS, INC.  
P.O. BOX 990  
GREENSBURG PA 15601

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Grant Date: March 29, 1999

Facility Id: 8445

Call Sign: KQV

This license expires 3:00 a.m.  
local time, August 01, 1998.

License File Number: BL-19981229AC

This supersedes authorization granted March 29, 1999 to correct license expiration date due to pending renewal. (JBS 3/29/04).

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	5:15 PM	Jul.	5:00 AM	7:45 PM
Feb.	7:15 AM	6:00 PM	Aug.	5:30 AM	7:15 PM
Mar.	6:30 AM	6:30 PM	Sep.	6:00 AM	6:30 PM
Apr.	5:45 AM	7:00 PM	Oct.	6:30 AM	5:45 PM
May	5:00 AM	7:30 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: BROADCAST EDUCATIONAL COMMUNICATIONS, INC.

Station Location: PITTSBURGH, PA

Frequency (kHz): 1410

Station Class: B

Antenna Coordinates:

Day

Latitude: N 40 Deg 31 Min 24 Sec

Longitude: W 80 Deg 00 Min 40 Sec

Night

Latitude: N 40 Deg 31 Min 24 Sec

Longitude: W 80 Deg 00 Min 40 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: 5.4 Night: 5.4

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 10.4 Night: 10.4

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1027251	
2	1027250	
3	1027249	

Night:

Tower No.	ASRN	Overall Height (m)
1	1027251	
2	1027250	
3	1027249	
4	1027248	
5	1027247	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 901.23 Night: 901.23  
 Standard RMS (mV/m/km): Night: 948.87  
 Augmented RMS (mV/m/km): Day: 947.89  
 Q Factor: Day: 27.3 Night: 66.56

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.4700	0.000	0.0000	0.000	0	180.6
2	1.1730	113.400	90.0000	330.000	0	180.6
3	0.4700	255.000	90.0000	330.000	1	180.6

\* 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	216.0	10.0	990.31
2	258.5	10.0	370.15
3	295.5	10.0	353.11
4	358.0	56.0	381.41

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.3030	88.000	0.0000	0.000	0	180.6
2	1.3200	-113.700	90.0000	330.000	0	180.6
3	2.3700	46.000	90.0000	330.000	1	180.6
4	2.2620	204.800	90.0000	330.000	1	180.6
5	1.0000	0.000	90.0000	330.000	1	180.6

\* 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	-108.7	0.435
2	0	1

Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
3 144.6	0.527

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 39.7	0.132
2 -159.5	0.51
3 0	1
4 162.2	0.998
5 -38.7	0.377

Antenna Monitor: Potomac Instruments AM-19D (210)

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)
76	3.54	200
216	4.02	180
258.5	4.83	47
295.5	2.3	124

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
76	3.54	43.9
216	4.02	63.5
258.5	4.83	20.5
295.5	2.3	32

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