FCC Form 352
February 1977

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BR-810522UK
BZ-810720AA
Call Sign: W F H G
Fac ID : 6872

STANDARD BROADCAST STATION LICENSE
RENEWAL & MODIFICATION

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, the LICENSEE

BRISTOL BROADCASTING COMPANY, INC.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time OCTOBER 1, 1988

The licensee shall use and operate said apparatus only in accordance with the following terms:

1. On a frequency of 980 kHz.

2. With nominal power of 1 kilo watts nighttime and 5 kilo watts daytime,
with antenna input power of 1.08 kilo watts --- directional [Common Point] current 4.65 amperes
antenna nighttime ..... [Common Point] resistance 50 ohms,
and antenna input power of 5 kilo watts non directional [Antenna] current 14.93 amperes
antenna daytime ..... [Antenna] resistance 22.4 ohms

3. Hours of operation: Unlimited Time.
Average hours of sunrise and sunset:
Jan. 7:45 am to 5:30 pm; Feb. 7:15 am to 6:15 pm;
Mar. 6:45 am to 6:30 pm; Apr. 6:00 am to 7:00 pm;
May 5:15 am to 7:30 pm; June 5:00 am to 7:45 pm;
July 5:15 am to 7:45 pm; Aug. 5:45 am to 7:15 pm;
Sep. 6:15 am to 6:45 pm; Oct. 6:30 am to 6:00 pm;
Nov. 7:00 am to 5:15 pm; Dec. 7:30 am to 5:15 pm;
Eastern Stan ard Time (Non-Advanced)

4. With the station located at: Bristol, Virginia

5. With the main studio located at: On Valley Drive, 1.5 miles NE of center of Bristol, Virginia

6. Remote control point: On Valley Drive, 1.5 miles NE of center of Bristol, Virginia

7. Transmitter location:
On Valley Drive, 1.5 miles NE of center of Bristol, Virginia

	°	'	"
North Latitude:	36	36	30
West Longitude:	82	09	36

8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: 1, 3, 12 & 21.

9. Transmitter(s): Type Accepted

10. Conditions: ___

The Commission reserves the right during said license period of terminating this license or making effective any changes or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

This license is issued on the licensee's representation that the statements contained in licensee 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 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.

1/ This license consists of this page and pages 2, 3 & 4.

Dated: March 21, 1983

FEDERAL COMMUNICATIONS

FCC Form 353-A
June 1980

File NO.: BR-810522UK
BZ-810720AA

Call Sign: W F H G

Date: 3-31-82

DA- N,U

1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**
No. and Type of Elements: Three uniform cross-section, guyed, series excited vertical radiators.

Height above Insulators: 200' (72°)

Overall Height: 204'

Spacing and Orientation: 2 409' (176°) between adjacent elements on a line bearing 345° true.

Non-Directional Antenna: Center tower; other towers open circuited

Ground System consists of 120 buried copper wire radials 251' long or to points of intersection plus a 50' square ground screen at the base of each tower.

2. THEORETICAL SPECIFICATIONS

TOWER	NW(#1)	C(#2)	SE(#3)
Phasing:	91°	0°	-91°
Field Ratio:	0.763	1.0	0.763

3. OPERATING SPECIFICATIONS

Phase Indication*:	77°	0°	-87°
Antenna Base Current Ratio:	0.691	1.0	0.734
Antenna Monitor Sample Current Ratio:	0.710	1.0	0.690

* As indicated by Potomac Instruments AM-19 (204) antenna monitor.

Field measuring equipment shall be available at all times, and the field intensity at each of the monitoring points shall be measured at least once each seven days and an appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 23.5° true North. From center of Bristol proceed northeast on U. S. Highway 11-19-58 for a distance of approximately 2.85 miles until reaching intersection with road to Wallace at left. Turn left (passing Crystal Pool at 0.6 miles) and proceed 1.9 miles until reaching two white frame houses at left of road. The Monitoring Point is in the center of the road approximately 100 feet beyond second white house and opposite opening in wire fence at left of road. The distance to the transmitter is 2.7 miles. The field intensity measured at this point should not exceed 4.1 mv/m.

Direction of 59° true North. From Monitoring Point No. 1 proceed toward Wallace until reaching sharp bend in road at about 0.45 miles. Turn south (right) and proceed until reaching U. S. Highway 11-19-58. Turn east (left) and proceed 3.65 miles until reaching intersection with Halls Bottom Rd. at right. Turn right and follow Halls Bottom Rd. for 0.7 miles until reaching gate in fence on left. Go through gate and down hill to creek. Monitoring Point is on bank of creek approximately 100 feet south of footbridge across creek. The distance to the transmitter is 5.9 miles. The field intensity measured at this point should not exceed 1.9 mv/m.

Direction of 182° true North. From Monitoring Point No. 2 return to Bristol via U. S. Highway 11-19-58. From Bristol follow U. S. Highway 421 south until reaching Cedar Street (intersection with Virginia Avenue). Turn east (left) into Cedar Street and follow Cedar Street around grounds of King College for distance of 0.7 mile. Monitoring Point is 25 feet to left of road (approximately 100 feet beyond small tree at left of road). The distance to the transmitter is 1.75 miles. The field intensity measured at this point should not exceed 96.4 mv/m.

Direction of 268° true North. From Bristol follow U. S. Highway 58 west for a distance of 2.6 miles until reaching intersection with Island Home Road at left (high voltage transmission line crosses highway 0.1 mile beyond). Turn left (parallel with transmission line) for a distance of 0.45 mile to road at right. Turn right and proceed 0.8 mile until reaching intersecting road at left. Turn to left and go 0.05 mile until reaching log barn at right of road. Monitoring Point is to left of road, through opening in fence, in field approximately 50 feet from road. The distance to the transmitter is 4.85 miles. The field intensity measured at this point should not exceed 2.42 mv/m.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS - CONTINUED:

Direction of 345° true North. From Bristol proceed northeast on U. S. Highway 11-19-58 for a distance of 2.7 miles until reaching road (638) which intersects diagonally from left. Proceed left on 638 for 0.2 mile until towers of array are seen to line up. Monitoring Point is 25 feet to left of road through gate in fence. The distance to the transmitter is 1.15 miles. The field intensity measured at this point should not exceed 130.0 mv/m.