



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

Authorizing Official:

Official Mailing Address:

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WGBH EDUCATIONAL FOUNDATION  
ONE GUEST STREET  
BOSTON MA 02135

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Brian J. Butler  
Supervisory Engineer  
Audio Division  
Media Bureau

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Facility Id: 8566

Call Sign: WCAI

License File Number: BLED-20001116AAT

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Grant Date: August 27, 2001

This license expires 3:00 a.m.  
local time, April 01, 2006.

This License Covers Permit No.: BPED-19940913MD as modified by  
BMPED-2000510AAD

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.

Callsign: WCAI

License No.: BLED-20001116AAT

Name of Licensee: WGBH EDUCATIONAL FOUNDATION

Station Location: MA-WOODS HOLE

Frequency (MHz): 90.1

Channel: 211

Class: A

Hours of Operation: Unlimited

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

Transmitter output power: .130 kW

Antenna type: Directional

Description: SHI 6513-2SS

Antenna Coordinates: North Latitude: 41 deg 26 min 16 sec  
West Longitude: 70 deg 36 min 51 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):		1.30
Height of radiation center above ground (Meters):		41
Height of radiation center above mean sea level (Meters):		82
Height of radiation center above average terrain (Meters):		76

Antenna structure registration number: 1004416

Overall height of antenna structure above ground (including obstruction lighting if any) see the registration for this antenna structure.

Special operating conditions or restrictions:

- The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by this by this license.

A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:

1.30 kilowatts (V).

Principal minima and their associated field strength limits:

130 to 250 degrees True: 0.43 kilowatts

Special operating conditions or restrictions:

- 2 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.

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