

**APPLICATION FOR STATION LICENSE/
REQUEST FOR PROGRAM TEST AUTHORITY
LAKE RADIO, INC.
WLKQ (FM) RADIO STATION
CH 272A - 102.3 MHZ - 4.2 KW (DA)
BUFORD, GEORGIA
April 2003**

EXHIBIT #A

WLKQ Transmission System Calculations

Effective Radiated Power:

Horizontal	4.2 kilowatts
Vertical	4.2 kilowatts ²

Antennas:

Shively Labs 6810-2-SS-DA
2 bay half wavelength
Horizontal gain 1.180

Transmission Line:
(328 feet)

Cablewave HCC 158-50J
1 5/8 inch air dielectric
85.4% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

4.167 kilowatts

Facilities Authorized:

Channel 272A - 102.3 MHz

Effective Radiated Power:

4.2 kilowatts (H/V)

Geographic Coordinates:

North Latitude 34° 07' 16"
West Longitude 83° 58' 35"

Antenna Center of Radiation:

Above Ground 98.0 meters
Above MSL 452.0 meters
HAAT 119.0 meters

Antenna Structure Registration No:

1211381

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- 2) Based on the vertical polarization power gain of the system, the vertical effective radiated power was calculated at 4.16 kilowatts, which was rounded to 4.2 kilowatts.

APPLICATION FOR STATION LICENSE/

with the Facility, and the BUFORDCOUNTY, GEORGIA as a condition of the grant pursuant to REQUEST FOR PROGRAM TEST AUTHORITY

§73.215 of the rules of the Federal Communications Commission, that the conditions with the AFFIDAVIT OF QUALIFICATION OF CONSULTANT

WLKQ's respective terms apply to the BUFORDCOUNTY, GEORGIA program test authority. Surveyor BUFORDCOUNTY, GEORGIA

that the antenna is oriented at 238° true. April 2003

State of Georgia)

St. Simons Island) ss:

County of Glynn)

EXHIBIT #A

TECHNICAL STATEMENT

Condition 6 requires WLKQ Transmitter System Calculations to verify the construction

This Statement was prepared on behalf of Lake Radio, Inc. ("Lake"), licensee of radio of the WLKQ facilities did not have an adverse impact on the operation of AM station WXEM, station WLKQ Channel 27, Buford, Georgia. Lake holds an outstanding construction permit

1460 kHz, Buford, Georgia. The condition required 4.2 kilowatts on eight radials to show authorizing minor changes in the facilities of WLKQ (BRH 20000303 ACG). This instant JEFFERSON G. BROCK, being duly sworn, deposes and says that he is an officer of Graham Brock, Inc. Graham Brock has been engaged by Lake Radio, Inc. to prepare the the WXEM system was not impacted. As detailed in the application that resulted in the WLKQ application seeks a license to cover this outstanding construction permit. Further, since the

permit (BRH 20000303 ACG), the WLKQ antenna is Shively Labs the WXEM tower. The His qualifications are a matter of record before the Federal Communications Commission. He has been active in Broadcast Engineering since 1979 and coordinates for the antenna tower area at night in accordance with the tower registration and the Test Authority. The WLKQ facilities have been constructed as authorized in the underlying

The attached WLKQ coordinates prepared by him in accordance with the permit. In fact, Lake collected the permit. Attached hereto are a calculation of the Classwater HGC 158501 for WLKQ.

coordinates of the WLKQ tower in the underlying permit is 8 inch air dielectric 85.4% Efficiency
This the 14th day of April, 2003.

There were seven conditions placed on the WLKQ permit. The first condition requires

Required WLKQ is higher Power Output system was also on the WXEM tower, there was little, if the power of the Effective Radiated Power ceased to be transmitted that persons having access to any, impact on the WXEM system as a result of the antenna change for WLKQ. The same the site are not exposed to radio frequency electromagnetic fields in excess of the FCC _____ antenna facilities authorized for the new WLKQ system Jefferson G. Brock, 23 MHz

guidelines. Lake herein restates that it will lower the power of WLKQ or cease operation, as that could be radiated. Therefore, no pre- or post-construction field measurements were taken. necessary, to ensure no one is exposed to fields in excess of the FCC limits.

The WXEM antenna has been checked for a change in impedance 34807166 application to West Longitude 83° 58' 35"

update that data and correct the geographic coordinates of the WXEM facility is being prepared Antenna Center of Radio to the use of a directional antenna for WLKQ. Attached

by the licensee of that station. It will be submitted to the Commission on a 52.6 m basis. Once Exhibit B is an antenna proof of performance from Shively Labs ("Shively Labs") the

the data for the WXEM system is filed, Lake will notify the Commission. manufacture of the WLKQ antenna system, demonstrating the compliance of the antenna system

Notary Public, State of Georgia
My Commission Expires: April 16, 2006

1) Based on the sectional polarization in the North direction of the WLKQ Channel 27 tower WXEM calculated at 4.16 kilowatts, which was rounded to 4.2 kilowatts.