

APPLICATION FOR STATION LICENSE  
REQUEST FOR PROGRAM TEST AUTHORITY  
RADIO TRAINING NETWORK, INC.  
WLFH (FM) RADIO STATION  
CH 205C2 - 88.9 MHZ - 1.2 (H) / 45 (V) KW  
CLAXTON, GEORGIA  
August 2013

TECHNICAL STATEMENT

This Technical Statement was prepared on behalf of Radio Training Network, Inc. ("RTN"), permittee of radio station WLFH, Channel 205C2, Claxton, Georgia. RTN presents this application to license the facilities authorized in the outstanding WLFH construction permit (BNPED-20071022BIT). The detailed calculation of the transmitter power output for WLFH is attached as Exhibit A.

There are eight (8) conditions attached to the construction permit. Condition #1 states:

*"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."*

RTN recognizes its responsibility in this matter and pledges compliance with this condition.

Condition #2 states:

*"Pursuant to 47 CFR Section 73.7005(a) the permittee/licensee shall be subject to a holding period. From the grant of the construction permit and continuing until the facility has achieved four years of on-air operations, the permittee/licensee proposing to assign or transfer the construction permit/license to another party will be required to demonstrate the following two factors: that the proposed buyer would qualify for at least the same number of points as the assignor or transferor originally received; and that consideration received and/or promised does not exceed the assignor's or transferor's legitimate and prudent expenses as defined therein."*

RTN recognizes its responsibility in this matter and pledges compliance with this condition.

Condition #3 states:

*“Pursuant to 47 CFR Sections 73.7002(c) and 73.7005(b), the permittee/licensee is required to construct and operate for a period of four years of on-air operations technical facilities substantially as proposed and shall not downgrade service to the area on which the preference was based.”*

RTN recognizes its responsibility in this matter and pledges compliance with this condition.

Condition #4 states:

*“Radio Training Network, Inc., must surrender its license for FM translator station W257BG, Statesboro, Georgia, Facility ID No. 87576, prior to commencement of program tests of the full service NCE-FM station. The request for cancellation shall be made by letter to the Audio Division, Media Bureau, c/o Office of the Secretary, FCC, Washing, DC 20554.”*

RTN recognizes its responsibility in this matter and pledges compliance with this condition.

Condition #5 states:

*“BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit the results of a complete proof-of-performance to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components. This proof-of-performance may be accomplished using the complete full size antenna, or individual bays therefrom, mounted on a supporting structure of identical dimensions and configuration as the proposed structure, including all braces, ladders, conduits, coaxial lines, and other appurtenances; or using a carefully manufactured scale model of the entire antenna, or individual bays therefrom, mounted on an equally scaled model of the proposed supporting structure, including all appurtenances. Engineering exhibits should include a description of the antenna testing facilities and equipment employed, including appropriate photographs or sketches and a description of the testing procedures, including scale factor, measurements frequency, and equipment calibration.”*

Exhibit B is the required “Pattern Certification”, including the proof-of performance on the antenna system provided by Shively Labs (“Shively”) the manufacturer of the antenna.

Condition #6 states:

*“BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit an affidavit from a licensed surveyor to establish that the directional antenna has been oriented at the proper azimuth.”*

Attached as Exhibit C is the required surveyor’s affidavit.

Condition #7 states:

*"BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee/licensee shall submit an affidavit that the installation of the directional antenna system was overseen by a qualified engineer. This affidavit shall include a certification by the engineer that the antenna was installed pursuant to the manufacturer's instructions and list the qualifications of the certifying engineer."*

Exhibit D is the affidavit from the engineer stating the engineer's list of qualifications and that the antenna (Shively) was constructed and installed according to the manufacturer's instructions .

Condition #8 states:

*"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 construction permit.*

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

*45 kilowatts.*

*Principal minima and their associated field strength limits:*

<i>90 to 100 degrees True:</i>	<i>1.426 kilowatts</i>
<i>240 degrees True:</i>	<i>6.705 kilowatts</i>
<i>350 degrees True:</i>	<i>24.04 kilowatts"</i>

Exhibit B from Shively includes this certification.

Based on the foregoing, it is believed that Radio Training Network, Inc. is in compliance with the Commission's rules and the conditions of the permit.