

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION

File No.: BR-1313

Call Sign: W K X L

STANDARD BROADCAST STATION LICENSE  
MAIN and AUXILIARY TRANSMITTERS

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, <sup>1/</sup>the LICENSEE

CAPITOL BROADCASTING CORPORATION, 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 APRIL 1, 1981

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

- On a frequency of 1450 kHz.
- With nominal power of 250 watts nighttime and 1 kilo watts daytime,  
with antenna input power of 250 watts NON directional [ ANTENNA current 0.635 amperes  
antenna nighttime ..... [ ANTENNA resistance 620 ohms,  
and antenna input power of 1 kilo watts NON directional [ ANTENNA current 1.27 amperes  
antenna daytime ..... [ ANTENNA resistance 620 ohms

} see map

3. Hours of operation: UNLIMITED TIME:  
Average hours of sunrise and sunset:

JAN.	7:15 am to 4:30 pm;	FEB.	6:45 am to 5:15 pm;
MAR.	6:00 am to 5:45 pm;	APR.	5:00 am to 6:30 pm;
MAY	4:30 am to 7:00 pm;	JUNE	4:00 am to 7:30 pm;
JULY	4:15 am to 7:30 pm;	AUG.	4:45 am to 6:45 pm;
SEP.	5:30 am to 6:00 pm;	OCT.	6:00 am to 5:00 pm;
NOV.	6:45 am to 4:15 pm;	DEC.	7:15 am to 4:15 pm;

- EASTERN STANDARD TIME (NON ADVANCED)  
With the station located at: CONCORD, NEW HAMPSHIRE
- With the main studio located at: 37 Redington Road  
Concord, New Hampshire

6. Remote control point: --

- Transmitter location: 37 Redington Road North Latitude: 43° 11' 39"  
Concord, New Hampshire West Longitude: 71° 33' 17"

ANTENNA: 305' (310' overall height), uniform cross section, guyed, series excited, vertical radiator.  
Ground system consists of 120 radials 350' long and 240 radials 50' long of buried copper wire.

- Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: 1, 3, 12 & 21.
- Transmitter(s): MAIN: HARRIS MW-1 AUXILIARY: GATES BC-1T
- Conditions: The authority granted herein is subject to the condition that Licensee shall accept such interference as may be imposed by other existing 250 watt, Class IV stations in the event they are subsequently authorized to increase power to 1 kilowatt.

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'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 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.

<sup>1/</sup>This license consists of this page and pages --  
This supersedes authorization of same date to correct Auxiliary.  
Dated: MAY 12, 1978  
oh

FEDERAL  
COMMUNICATIONS  
COMMISSION



## OBSTRUCTION MARKING AND LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

### PAINTING<sup>1</sup>

1 Antenna structures shall be painted throughout their height with alternate bands of aviation surface orange and white, terminating with aviation surface orange bands at both top and bottom. The width of the bands shall be equal and approximately one-seventh the height of the structure, provided however, that the bands shall not be more than 100 feet nor less than 1½ feet in width. All towers shall be cleaned or repainted as often as necessary to maintain good visibility.

### TOP LIGHTING

2 There shall be installed at the top of the tower at least two 116- or 125-watt lamps (A21/TS) enclosed in aviation red obstruction light globes. The two lights shall burn simultaneously from sunset to sunrise and shall be positioned so as to insure unobstructed visibility of at least one of the lights from aircraft at any normal angle of approach. A light sensitive control device or an astronomical dial clock and time switch may be used to control the obstruction lighting in lieu of manual control. When a light sensitive device is used it should be adjusted so that the lights will be turned on at a north sky light intensity level of about thirty-five foot candles and turned off at a north sky light intensity level of about fifty-eight foot candles.

3 There shall be installed at the top of the structure one 300 m/m electric code beacon equipped with two 620- or 700-watt lamps (PS-40, Code Beacon type), both lamps to burn simultaneously, and equipped with aviation red color filters. Where a rod or other construction of not more than 20 feet in height and incapable of supporting this beacon is mounted on top of the structure and it is determined that this additional construction does not permit unobstructed visibility of the code beacon from aircraft at any normal angle of approach, there shall be installed two such beacons positioned so as to insure unobstructed visibility of at least one of the beacons from aircraft at any normal angle of approach. The beacons shall be equipped with a flashing mechanism producing not more than 40 flashes per minute nor less than 12 flashes per minute with a period of darkness equal to approximately one-half of the luminous period.

### INTERMEDIATE LIGHTING (BEACONS)

4 At approximately one-half of the overall height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event this beacon cannot be installed in a manner to insure unobstructed visibility of it from aircraft at any normal angle of approach, there shall be installed two such beacons. Each beacon shall be mounted on the outside of the tower at the prescribed height.

5 At approximately two-fifths of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event this beacon cannot be installed in a manner to insure unobstructed visibility of it from aircraft at any normal angle of approach, there shall be installed two such beacons. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

6 On levels at approximately two-thirds and one-third of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach, there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

7 On levels at approximately four-sevenths and two-sevenths of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event these beacons

cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach, there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

8 On levels at approximately three-fourths, one-half and one-fourth of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of the beacon from aircraft at any normal angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach, there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

9 On levels at approximately two-thirds, four-ninths and two-ninths of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach, there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

10 On levels at approximately four-fifths, three-fifths, two-fifths and one-fifth of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event these beacons cannot be

<sup>1</sup> Antenna structures constructed prior to November 1, 1970 shall conform to these painting specifications when next repainted but in no event later than Nov. 1, 1977 (Sec. 17.43).

installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach, there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

10.1 On levels at approximately eight-elevenths, six-elevenths, four-elevenths and two elevenths of the overall height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach, there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

10.2 On levels at approximately five-sixths, two-thirds, one-half, one-third and one-sixth of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

10.3<sup>(1)</sup> On levels at approximately ten-thirteenths, eight-thirteenths, six thirteenths, four-thirteenths and two-thirteenths of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach, there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

10.4 On levels at approximately six-sevenths, five-sevenths, four-sevenths, three-sevenths two-sevenths and one-seventh of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach, there shall

be installed two such beacons at each level. Each beacon shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

#### (SIDE LIGHTS)

11 At the approximate mid point of the over-all height of the tower there shall be installed at least two 116- or 125-watt lamps (A21/TS) enclosed in aviation red obstruction light globes. Each light shall be mounted so as to insure unobstructed visibility of at least one light at each level from aircraft at any normal angle of approach.

12 On levels at approximately two-thirds and one-third of the over-all height of the tower, there shall be installed at least two 116- or 125-watt lamps (A21/TS) enclosed in aviation red obstruction light globes. Each light shall be mounted so as to insure unobstructed visibility of at least one light at each level from aircraft at any normal angle of approach.

13. On levels at approximately three-fourths and one-fourth of the over-all height of the tower, at least one 116- or 125-watt lamp (A21/TS) enclosed in aviation red obstruction light globe shall be installed on each outside corner of the structure.

14 On levels at approximately four-fifths, three-fifths and one-fifth of the over-all height of the tower, at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

15 On levels at approximately five-sixths, one-half, and one-sixth of the over-all height of the tower, at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of structure.

16 On levels at approximately six-sevenths, five-sevenths, three-sevenths and one-seventh of the over-all height of the tower at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

17 On levels at approximately seven-eighths, five-eighths, three-eighths and one-eighth of the over-all height of the tower, at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

18 On levels at approximately eight-ninths, seven-ninths, five-ninths, one-third and one-ninth of the over-all height of the tower, at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

19 On levels at approximately nine-tenths, seven-tenths, one-half, three-tenths and one-tenth of the over-all height of the tower, at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

19.1 On levels at approximately ten-elevenths, nine-elevenths, seven-elevenths, five-elevenths, three-elevenths and one-eleventh of the over-all height of the tower at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

19.2 On levels at approximately eleven-twelfths, three-fourths, seven-twelfths, five-twelfths, one-fourth and one-twelfth of the over-all height of the tower at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

19.3 On levels at approximately twelve-thirteenths, eleven-thirteenths, nine-thirteenths, seven-thirteenths, five-thirteenths, three-thirteenths and one-thirteenth of the over-all height of the tower at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

19.4 On levels at approximately thirteen-fourteenths, eleven-fourteenths, nine-fourteenths, one-half, five-fourteenths three-fourteenths and one-fourteenth of the over-all height of the tower at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

20 All lighting shall be exhibited from sunset to sunrise unless otherwise specified.

21 All lights shall burn continuously or shall be controlled by a light sensitive device adjusted so that the lights will be turned on at a north sky light intensity level of about 35 foot candles and turned off at a north sky light intensity level of about 58 foot candles.

22 During construction of an antenna structure, for which obstruction lighting is required, at least two 116- or 125-watt lamps (A21/TS) enclosed in aviation red obstruction light globes, shall be installed at the uppermost point of the structure. In addition, as the height of the structure exceeds each level at which permanent obstruction lights will be required, two similar lights shall be displayed nightly from sunset to sunrise until the permanent obstruction lights have been installed and placed in operation, and shall be positioned so as to insure unobstructed visibility of at least one of the lights at any normal angle of approach. In lieu of the above temporary warning lights, the permanent obstruction lighting fixtures may be installed and operated at each required levels as each such level is exceeded in height during construction.

October 16, 2013

**VIA US POSTAL SERVICE  
CERTIFIED MAIL RECEIPT**

Ms. Marlene H. Dortch  
Secretary  
Federal Communications Commissions  
445 12<sup>th</sup> Street, S.W.  
Washington, D.C. 20554

**Re: New Hampshire Family Radio, LLC – WKXL (AM)  
37 Redington Rd.  
Concord, New Hampshire 03301  
Facility ID number 8694  
Power Readings**

Dear Ms. Dortch:

New Hampshire Family Radio, LLC, pursuant to Section 73.54(d) of the Commission's Rules and by its attorneys, hereby notifies the Commission that New Hampshire Family Radio, LLC will use the direct method using the power meter on the Broadcast Electronics AM-1A transmitter rather than the antenna base current.

Please contact the undersigned directly if there are any questions regarding this matter.

Respectfully submitted,



Chris Ryan  
Station Manager/Chief Operator

Cc: Robert Shotwell/ Spectrum Investigative Services, Inc

FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C. 20554

ORDER TO SHOW CAUSE

Pursuant to Section 316(a) of the Communications Act of 1934, as amended, Class IV AM Station WKXL, CONCORD, NH SHALL SHOW CAUSE why its license SHOULD NOT BE MODIFIED to specify operation with a nighttime power of 1 kilowatt instead of the current nighttime power of 250 watts.

Pursuant to SECTION 1.87 of the Commission's Rules, the licensee of Station WKXL may, not later than June 1, 1984, request that a hearing be held on the proposed modification or file a written statement in opposition to the modification proposed in this Order to Show Cause. In such case, the Commission will conclude that Station WKXL does not wish to increase its nighttime power, and the license for Station WKXL will not be modified. Instead, the station will retain its current nighttime power of 250 watts.

In the event the Commission receives no written opposition to the proposed modification, the right to a hearing will be considered to have been waived, and the licensee of Station WKXL will be deemed to have consented to the modification. Although the license will be so modified, this modification WILL NOT BECOME EFFECTIVE UNTIL FURTHER NOTICE and nighttime operation with 1 kilowatt nighttime should NOT commence until that date to be announced.

This letter should be posted as part of the station's license.

April 16, 1984

For further information contact:

Jonathan David  
Policy & Rules Division  
Mass Media Bureau  
(202) 632-7792

*Received by WKXL 4/18/84.*

*No action taken because WKXL wishes to have its license modified to provide for 1kw nighttime power.*

*Richard W. Osborne  
President*

*Capital Broadcasting Corporation, Inc.  
(Licensee of WKXL)*

WKXL  
CAPITOL B/CING. INCORPORATION, INC.  
P. O. BOX 875  
CONCORD NH 03301

LICENSE RENEWAL AUTHORIZATION

THIS IS TO NOTIFY YOU THAT YOUR APPLICATION FOR RENEWAL OF LICENSE, BR-20131127AYP, WAS GRANTED ON 03/24/2014 FOR A TERM EXPIRING ON 04/01/2022.

THIS IS YOUR LICENSE RENEWAL AUTHORIZATION FOR STATION WKXL.

FACILITY ID: 8694

LOCATION: CONCORD, NH

THIS CARD MUST BE POSTED WITH THE STATION'S LICENSE CERTIFICATE AND ANY SUBSEQUENT MODIFICATIONS.

NEW HAMPSHIRE FAMILY RADIO LLC  
37 REDINGTON RD.  
CONCORD, NH 03301



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
ANTENNA STRUCTURE REGISTRATION**



OWNER: New Hampshire Family Radio LLC

FCC Registration Number (FRN): 0014336119

<b>ATTN: Gordon Humphrey</b> <b>New Hampshire Family Radio LLC</b> <b>37 Redington Rd.</b> <b>Concord, NH 03301</b>	<b>Antenna Structure Registration Number</b> <p align="center"><b>1034646</b></p>
	<b>Issue Date</b> <p align="center"><b>05/09/2014</b></p>
<b>Location of Antenna Structure</b> <b>37 REDINGTON RD</b> <b>CONCORD, NH 03301</b>  <b>County: MERRIMACK</b>	<b>Ground Elevation (AMSL)</b> <p align="right"><b>91.4 meters</b></p>
	<b>Overall Height Above Ground (AGL)</b> <p align="right"><b>94.5 meters</b></p>
<b>Latitude</b> <b>43- 11- 41.0 N</b>	<b>Longitude</b> <b>071- 33- 18.0 W</b>
<b>NAD83</b>	
<b>Center of Array Coordinates</b> <p align="center"><b>N/A</b></p>	<b>Type of Structure</b> <p align="center"><b>TOWER</b></p> <p align="center"><b>Free standing or Guyed Structure used for Communications Purposes</b></p>
<b>Painting and Lighting Requirements:</b> <b>FAA Chapters 3, 4, 5, 12</b>  <b>Paint and Light in Accordance with FAA Circular Number 70/7460-1K</b>   <b>Conditions:</b>	

This registration is effective upon completion of the described antenna structure and notification to the Commission. **YOU MUST NOTIFY THE COMMISSION WITHIN 24 HOURS OF COMPLETION OF CONSTRUCTION OR CANCELLATION OF YOUR PROJECT, please file FCC Form 854.** To file electronically, connect to the antenna structure registration system by pointing your web browser to <http://wireless.fcc.gov/antenna>. Electronic filing is recommended. You may also file manually by submitting a paper copy of FCC Form 854. Use purpose code "NT" for notification of completion of construction; use purpose code "CA" to cancel your registration.

The Antenna Structure Registration is not an authorization to construct radio facilities or transmit radio signals. It is necessary that all radio equipment on this structure be covered by a valid FCC license or construction permit.

You must immediately provide a copy of this Registration to all tenant licensees and permittees sited on the structure described on this Registration (although not required, you may want to use Certified Mail to obtain proof of receipt), and *display* your Registration Number at the site. See reverse for important information about the Commission's Antenna Structure Registration rules.

You must comply with all applicable FCC obstruction marking and lighting requirements, as set forth in Part 17 of the Commission's Rules (47 C.F.R. Part 17). These rules include, but are not limited to:

**Posting the Registration Number:** The Antenna Structure Registration Number must be displayed in a conspicuous place so that it is readily visible near the base of the antenna structure. Materials used to display the Registration Number must be weather-resistant and of sufficient size to be easily seen at the base of the antenna structure. Exceptions exist for certain historic structures. See 47 C.F.R. 17.4(g)-(h).

**Inspecting lights and equipment:** The obstruction lighting must be observed at least every 24 hours in order to detect any outages or malfunctions. Lighting equipment, indicators, and associated devices must be inspected at least once every three months.

**Reporting outages and malfunctions:** When any top steady-burning light or a flashing light (in any position) burns out or malfunctions, the outage must be reported to the nearest FAA Flight Service Station, unless corrected within 30 minutes. The FAA must again be notified when the light is restored. The owner must also maintain a log of these outages and malfunctions.

**Maintaining assigned painting:** The antenna structure must be repainted as often as necessary to maintain good visibility.

**Complying with environmental rules:** If you certified that grant of this registration would not have a significant environmental impact, you must nevertheless maintain all pertinent records and be ready to provide documentation supporting this certification and compliance with the rules, in the event that such information is requested by the Commission pursuant to 47 C.F.R. 1.1307(d).

**Updating information:** The owner must notify the FCC of proposed modifications to this structure; of any change in ownership; or, within 30 days of dismantlement of the structure.

You can find additional information at *[insert link]* or by calling (877) 480-3201 (TTY 717-338-2824).