



United States of America  
**FEDERAL COMMUNICATIONS COMMISSION**  
**FM BROADCAST TRANSLATOR/BOOSTER STATION**  
**CONSTRUCTION PERMIT**

Authorizing Official:

Official Mailing Address:

---

LIGHTHOUSE RADIO NETWORK, INC.  
P.O. BOX 5000  
BANGOR ME 04402

---

---

George H. Gwinn  
Supervisory Engineer  
Audio Division  
Media Bureau

---

Facility Id: 147879

Call Sign: W221BO

Permit File Number: BNPFT-20030829BDY

Grant Date: June 25, 2004

This permit expires 3:00 a.m.  
local time, 36 months after the  
grant date specified above.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

Name of Permittee: LIGHTHOUSE RADIO NETWORK, INC.

Principal community to be served: ME-ELLSWORTH

Primary Station: WHMX (FM) , Channel 289, LINCOLN, ME

Via: Direct - off-air

Frequency (MHz): 92.1

Channel: 221

Hours of Operation: Unlimited

Antenna Coordinates: North Latitude: 44 deg 32 min 05 sec  
West Longitude: 68 deg 24 min 52 sec

Transmitter: Type Accepted. See Sections 73.1660, 74.1250 of the Commission's Rules

Antenna type: (directional or non-directional): Non-Directional

Major lobe directions (degrees true): Not Applicable

	Horizontally Polarized Antenna:	Vertically Polarized Antenna:
Effective radiated power in the Horizontal Plane (kw):	0.25	0.25
Height of radiation center above ground (Meters):	12	12
Height of radiation center above mean sea level (Meters):	45	45

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 16 Meters

Obstruction marking and lighting specifications for antenna structure:

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.

None Required

Special operating conditions or restrictions:

- 1 The permittee/licensee 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.
  
- 2 Prior to commencing program test operations, FM Translator or FM Booster permittee must have on file at the Commission, FCC Form 350, Application for an FM Translator or FM Booster Station License, pursuant to 47 C.F.R. Section 74.14.

Special operating conditions or restrictions:

- 3 PROGRAM TESTS FOR W221BO WILL NOT COMMENCE ON CHANNEL 221 UNTIL PROGRAM TESTS FOR BPH-19961105MB COMMENCE ON CHANNEL 229 AND A LICENSE WILL NOT BE GRANTED FOR W221BO ON CHANNEL 221 UNTIL A LICENSE IS GRANTED FOR BPH-19961105MB ON CHANNEL 229.

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