



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

Authorizing Official:

Official Mailing Address:

IHM LICENSES, LLC  
7136 S. YALE AVENUE  
SUITE 501  
TULSA OK 74136

Dale E. Bickel  
Senior Engineer  
Audio Division  
Media Bureau

Facility ID: 25906

Grant Date: July 08, 1993

Call Sign: WRNX

This permit expires 3:00 a.m.  
local time, January 08, 1995.

Permit File Number: BPH-19930511ID

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

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.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Name of Permittee: IHM LICENSES, LLC

Station Location: MA-AMHERST

Frequency (MHz): 100.9

Channel: 265

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: As required to achieve authorized ERP.

Antenna type: Directional

Antenna Coordinates: North Latitude: 42 deg 18 min 14 sec  
West Longitude: 72 deg 31 min 59 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	1.35	1.35
Height of radiation center above ground (Meters):	16	16
Height of radiation center above mean sea level (Meters):	318	318
Height of radiation center above average terrain (Meters):	211	211

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 18 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 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.
- 2 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.

Special operating conditions or restrictions:

- 3 -
3. BEFORE PROGRAM TESTS ARE AUTHORIZED, PERMITTEE 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 THE QUALIFICATIONS OF THE CERTIFYING ENGINEER.
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4. 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.
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- A RELATIVE FIELD STRENGTH OF 1.0 ON THE COMPOSITE RADIATION PATTERN HEREIN AUTHORIZED CORRESPONDS TO THE FOLLOWING EFFECTIVE RADIATED POWER:
- 1.35 KILOWATTS
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- PRINCIPAL MINIMA AND THEIR ASSOCIATED FIELD STRENGTH LIMITS:
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- |                  |                 |
|------------------|-----------------|
| 140 DEGREES TRUE | 0.227 KILOWATTS |
| 150 DEGREES TRUE | 0.216 KILOWATTS |
| 160 DEGREES TRUE | 0.227 KILOWATTS |
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- \*\*\*\* THIS IS A SECTION 73.215 CONTOUR PROTECTION GRANT \*\*\*\*  
 \*\*\*\*\* AS REQUESTED BY THIS APPLICANT \*\*\*\*\*
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- The permittee/licensee must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency radiation in excess of FCC guidelines.

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