



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

Authorizing Official:

Official Mailing Address:

UNIVERSITY OF NORTHWESTERN - ST. PAUL  
3003 SNELLING AVE N.  
ST. PAUL MN 55133

James D. Bradshaw  
Associate Chief  
Audio Division  
Media Bureau

Facility Id: 94038

Call Sign: K220HY

Permit File Number: BPFT-19990816TB

Grant Date: March 28, 2000

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: UNIVERSITY OF NORTHWESTERN - ST. PAUL

Principal community to be served: IA-SPENCER

Primary Station: KNWC-FM (FM) , Channel 243, SIOUX FALLS, SD

Via: Satellite

Frequency (MHz): 91.9

Channel: 220

Hours of Operation: Unlimited

Antenna Coordinates: North Latitude: 43 deg 08 min 41 sec  
 West Longitude: 95 deg 09 min 03 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<br>Polarized<br>Antenna: | Vertically<br>Polarized<br>Antenna: |
|---|---------------------------------------|-------------------------------------|
| Effective radiated power in the Horizontal Plane (kw):    | 0.21                                  | 0.21                                |
| Height of radiation center above ground (Meters):         | 45.7                                  | 45.7                                |
| Height of radiation center above mean sea level (Meters): | 448.4                                 | 448.4                               |

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 53.3 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 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.
- 2 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.

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