



United States of America  
**FEDERAL COMMUNICATIONS COMMISSION**  
**DIGITAL LOW POWER TELEVISION/TELEVISION TRANSLATOR**  
**BROADCAST STATION CONSTRUCTION PERMIT**

Authorizing Official:

Official Mailing Address:

GRAY TELEVISION LICENSEE, LLC  
1114 GRAND AVENUE  
WAUSAU WI 54403

Hossein Hashemzadeh  
Associate Chief  
Video Division  
Media Bureau

Facility Id: 167156  
Associated Facility Id: 22151

Grant Date: January 12, 2009  
This permit expires 3:00 a.m.  
local time, January 12, 2010.

Call Sign: W42DH-D  
Permit File Number: BMPD TT-20080723AAW

This permit modifies permit no.: BDCCD TT-20061030AFP

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: GRAY TELEVISION LICENSEE, LLC

Station Location: WI-SAYNER/VILAS COUNTY

Frequency (MHz): 638 - 644

Channel: 42

Hours of Operation: Unlimited

Transmitter: Type Accepted. See Sections 74.750 of the Commission's Rules.

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

Description: DIE TFU-8DSB-M/CP CIRCULARLY POLARIZED

Major lobe directions 146  
(degrees true):

Beam Tilt: 1 Degrees

Antenna Coordinates: North Latitude: 46 deg 01 min 55 sec

West Longitude: 89 deg 31 min 48 sec

Maximum Effective Radiated Power (ERP): 15 kW

Transmitter Output Power: 2.5 kW

Height of radiation center above ground: 135 Meters

Height of radiation center above mean sea level: 654.7 Meters

Antenna structure registration number: 1034107

Overall height of antenna structure above ground (including obstruction lighting if any) see the registration for this antenna structure.

Out-of-Channel Emission mask: Simple

Special operating conditions or restrictions:

- 1 This authorization is subject to the condition that low power television is a secondary service, and that low power television and television translator stations must not cause interference to the reception of existing or future full service television stations on either allotted NTSC or DTV channels, and must accept interference from such stations.

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